Pioneer *sound.vision.soul*

Operating Instructions

Blu-ray Disc PLAYER

BDP-LX70

Thank you for buying this Pioneer product.
Please read through these operating instructions so you will know how to operate your model properly.
After you have finished reading the instructions, put them away in a safe place for future reference.

IMPORTANT

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

D3-4-2-1-1_En-A

CAUTION
This product is a class 1 laser product, but this product contains a laser diode higher than Class 1. To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.

CLASS 1
LASER PRODUCT

The following caution label appears on your unit.
Location: inside of the unit

D3-4-2-1-8_B_En

WARNING

To prevent a fire hazard, do not place any naked flame sources (such as a lighted candle) on the equipment. **D3-4-2-1-7a_A_En**

VENTILATION CAUTION

When installing this unit, make sure to leave space around the unit for ventilation to improve heat radiation (at least 10 cm at top, 10 cm at rear, and 10 cm at each side).

WARNING

Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product, and to protect it from overheating. To prevent fire hazard, the openings should never be blocked or covered with items (such as newspapers, table-cloths, curtains) or by operating the equipment on thick carpet or a bed.

D3-4-2-1-7b_A_En

Operating Environment

Operating environment temperature and humidity: +5 ºC to +35 ºC (+41 ºF to +95 ºF); less than 85 %RH (cooling vents not blocked)
Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light) **D3-4-2-1-7c_A_En**

WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filed with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture. **D3-4-2-1-3_A_En**

WARNING

Before plugging in for the first time, read the following section carefully.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., 230 V or 120 V) written on the rear panel. **D3-4-2-1-4_A_En**

CAUTION
The ⏻ STANDBY/ON switch on this unit will not completely shut off all power from the AC outlet. Since the power cord serves as the main disconnect device for the unit, you will need to unplug it from the AC outlet to shut down all power. Therefore, make sure the unit has been installed so that the power cord can be easily unplugged from the AC outlet in case of an accident. To avoid fire hazard, the power cord should also be unplugged from the AC outlet when left unused for a long period of time (for example, when on vacation). **D3-4-2-2-2a_A_En**

If the AC plug of this unit does not match the AC outlet you want to use, the plug must be removed and appropriate one fitted. Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel. If connected to an AC outlet, the cut-off plug can cause severe electrical shock. Make sure it is properly disposed of after removal.
The equipment should be disconnected by removing the mains plug from the wall socket when left unused for a long period of time (for example, when on vacation). **D3-4-2-2-1a_A_En**

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement. **S002_En**

This product complies with the Low Voltage Directive (73/23/EEC, amended by 93/68/EEC), EMC Directives (89/336/EEC, amended by 92/31/EEC and 93/68/EEC). **D3-4-2-1-9a_En**

This product is for general household purposes. Any failure due to use for other than household purposes (such as long-term use for business purposes in a restaurant or use in a car or ship) and which requires repair will be charged for even during the warranty period. **K041_En**

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electronic products in accordance with legislation that requires proper treatment, recovery and recycling.

Private households in the member states of the EU, in Switzerland and Norway may return their used electronic products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For countries not mentioned above, please contact your local authorities for the correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health. **K058_A_En**

For U.K model:

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT: THE MOULDED PLUG

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 10 amp fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 10 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be obtained from your local dealer.

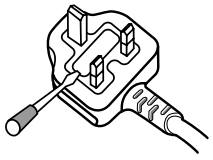
If the fitted moulded plug is unsuitable for your socket outlet, then the fuse shall be removed and the plug cut off and disposed of safely. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below. If in any doubt, please consult a qualified electrician.

IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:
Blue : Neutral Brown : Live
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows ;

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter **N** or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter **L** or coloured RED.

How to replace the fuse: Open the fuse compartment with a screwdriver and replace the fuse.



D3-4-2-1-2-2_B_En

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Chapter 1
Before you start

Features

BD-ROM playback

Blu-ray Disc is a next-generation video disc format featuring far higher disc capacity than conventional DVD. The higher capacity makes a whole range of new and enhanced features possible, such as support for high-definition video up to 1920 x 1080 pixels, high quality, surround sound audio, greater interactivity and richer content.

BD-ROM discs are commercially produced discs (Video Distribution format) that can contain movie and other video content, interactive content, enhanced menu features such as pop-up menus (press **POPUP MENU/MENU** during playback for these), full-colour, high-definition animated buttons and animated menu transition effects, button sounds (sounds are played when menu buttons are selected or activated), high-definition bitmap subtitles supporting full-colour images with frame-accurate animation effects up to full video frame rate, and so on.

While BD capacity is enough for most applications, the BD-ROM standard allows for content to be spread across several discs, removing the limit of one physical disc. Follow the on-screen instructions during playback when using these special kinds of discs.

BD-J application

The BD-ROM specification supports Java for interactive content. The Java specification for BD-ROM is known as BD-J. This allows content providers to put games and other interactive material linked to specific titles on to BD-ROM discs. (This player does not support downloadable BD-J content, direct connection to the Internet or the retrieval of content through the Internet.)

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.
© 2000-2007 Esmertec AG
Esmertec and Jbed are trademarks and/or registered trademarks of Esmertec AG.

Connect to a local area network

Connect this player to one or more computers in your house via Ethernet and use them as media servers, streaming audio, video and still image files for playback on your TV and/or audio system.

HDMI digital interface

The HDMI (High-Definition Multimedia Interface) interconnect provides high quality digital audio and video, all from a single user-friendly connector. HDMI is the first consumer electronics interface to support uncompressed standard, enhanced, or high-definition video plus standard to multi-channel surround sound audio, all using one interface. You can easily connect to an HDMI-equipped AV receiver or audio-visual device for high quality audio and video.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

HDMI Control

By connecting this unit to a Pioneer plasma television, AV system (amplifier or AV receiver etc.), or HD AV Converter with an HDMI cable, you can control this unit from the connected plasma television, AV system or HD AV Converter, as well as have the connected plasma television, AV system or HD AV Converter automatically change inputs in response to this unit starting playback or having the GUI screen (ex. Disc Navigator) displayed (known as the Auto-select function). The connected plasma television can there by have its power turned from off to on by this function.

You can also have this unit turn on automatically when you control this unit from a connected plasma television is turned on (Simultaneous power function).

Additionally, when the language information from a connected plasma television is received, you can have this unit's on-screen display language change automatically to that of the plasma television (only when playback is stopped and GUI screen is not displayed).

Refer to your plasma television's operating manual for more information regarding how your plasma television transmits language information.

For more information about which operations can be carried out by connecting via HDMI cable, refer to the operating manual for your plasma television, AV system or HD AV Converter.

PureCinema

When you playback film material (24 frames/second) on a BD-ROM or DVD-video disc, the progressive scan line automatically converts the film material to optimum quality (see *PureCinema* on page 37).

1080/50p, 1080/60p and 1080/24p output video

This player supports a variety of output video resolutions, up to 1080 lines/50 or 60 frames per second, progressive (HDMI only), making it ideal for playing high-definition Blu-ray Discs.

High quality audio

Blu-ray supports DTS, DTS-HD (DTS-HD is played back as DTS), Dolby Digital, Dolby Digital Plus, Dolby TrueHD (Dolby TrueHD is played back as Dolby Digital) and Linear PCM audio in up to eight channels (up to two channels for 24-bit/192 kHz audio). Connect this player to a surround-sound AV receiver for a true home theater experience.

• *Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.*
• *"DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc.*

Movie file playback

Video files encoded in the WMV (Windows Media* Video), MPEG-1/2 formats are playable from DVD-R/-RW, or from a connected media server.

Music file playback

This player supports various audio formats, including WMA (Windows Media* Audio), MP3 and WAV. You can play files stored on DVD-R/-RW, or from a connected media server.

Photo file playback

PNG, GIF and JPEG image files — including the popular EXIF format used by most digital cameras to store picture shooting information together with the JPEG image — are playable from DVD-R/-RW, or from a connected media server.

** "Windows Media™" is a trademark of Microsoft Corporation.*

This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from Microsoft Licensing, Inc.

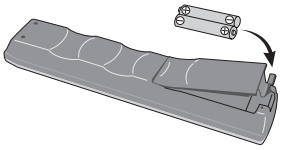
What's in the box

Please confirm that the following accessories are in the box along with these operating instructions when you open it:

- Remote control
- AA/R6P dry cell batteries x2
- Stereo audio cable (red/white plugs)
- Video cable (yellow plugs)
- HDMI cable
- LAN cable
- Power cable
- Warranty card

Putting the batteries in the remote control

- **Insert two AA/R6P batteries into the battery compartment following the indications (⊕,⊖) inside the compartment.**



Important

Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Don't mix new and old batteries together.
- Don't use different kinds of batteries together — although they may look similar, different batteries may have different voltages.
- Make sure that the plus and minus ends of each battery match the indications in the battery compartment.
- Remove batteries from equipment that isn't going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country/area.

WARNING

Do not use or store batteries in direct sunlight or other excessively hot place, such as inside a car or near a heater. This can cause batteries to leak, overheat, explode or catch fire. It can also reduce the life or performance of batteries. **D3-4-2-3-3_En**

Using the remote control

Please keep in mind the following when using the remote control:

- Make sure that there are no obstacles between the remote and the remote sensor on the unit.
- The remote has a range of about 7 m (at an angle of 30° from either side of the sensor). Use within this range in front of the remote control sensor on the front panel.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the unit's remote sensor.
- Remote controllers for different devices can interfere with each other. Avoid using remotes for other equipment located close to this unit.
- Replace the batteries when you notice a fall off in the operating range of the remote.
- When the batteries run down or you change the batteries, the TV preset codes are automatically reset. See *Resetting the player* on page 45 to reset them.

Disc/content format playback compatibility

General disc compatibility

This player is compatible with a range of disc types (media) and formats. Compatible discs will usually feature one of the following logos on the disc and/or disc packaging. Note however that some disc types, such as recordable BD, DVD or CD, may be in an unplayable format — see below for further compatibility information.

Blu-ray Disc (BD)

DVD-Video **DVD-R** **DVD-R DL** **DVD-RW**

- *"Blu-ray Disc" and are trademarks.*
- *is a trademark of DVD Format/Logo Licensing Corporation.*
- *This player may not be able to play perfectly every disc that features one of the logos listed above. Please contact Pioneer if you find a disc that won't play properly.*

Important

- This player is not compatible with BD-R/-RE (Blu-ray Disc Recordable Format Ver. 1 and Blu-ray Disc Recordable Format Ver. 2), DVD-R/-RW (VR mode), DVD-Audio, DVD-RAM, CDs (with PC files) or disc types other than those listed above.
- Do not use 8 cm disc adapters with this player. 8 cm discs can be played directly by placing then in the 8 cm disc depression in the center of the disc tray.

BD-ROM compatibility

- BD-ROM discs should conform to the BD-ROM Profile1.
- If a disc containing DTS-HD audio is played, this player is only compatible with bitstream output or playback decoding of current DVD (DTS) material (sampling rate: 48 kHz max., 5.1ch).
- If a disc containing Dolby TrueHD audio is played, this player is only compatible with bitstream output or playback decoding of current DVD (Dolby Digital) material (sampling rate: 48 kHz max., 5.1ch).
- This player cannot play 8 cm BD-ROM discs.

DVD-R/-RW compatibility

- This player is compatible with DVD-R/-RW discs recorded in DVD-Video format.
- DVD-R/-RW discs containing PC data can also be played. See below for file compatibility.
- Unfinalized DVD-R/-RW discs and VR mode DVD-R/-RW discs cannot be played in this player.

PC-created disc compatibility

Discs recorded using a personal computer may not be playable in this unit due to the settings of the application software used to create the disc. Check with the software publisher for more detailed information.

CD-R/-RW/-ROM compatibility

- This player does not support the playback of CD-R/-RW discs.
- PC files stored on CDs cannot be played back.
- CD-R/-RW discs that are not finalized cannot be played back.
- Regarding copy protected CDs: This product is designed to conform to the specifications of the audio CD format. This player does not support the playback or function of discs that do not conform to these specifications.

DualDisc playback

A DualDisc is a new two -sided disc, one side of which contains DVD content –video, audio, etc. –while the other side contains non-DVD content such as digital audio material.

The DVD side of a DualDisc will play in this product (excluding any DVD-Audio content).

The non-DVD, audio side of the disc is not compatible with this player.

It is possible that when loading or ejecting a DualDisc, the opposite side to that being played will be scratched. Scratched discs may not be playable.

For more detailed information on the DualDisc specification, please refer to the disc manufacturer or disc retailer.

File compatibility

- Compatible media: DVD-R, DVD-RW, media server on network (some formats may not be supported depending on the media server type).
- Even when they are in a supported format, some files may not play or display depending on the content.
- Even when playing a supported format, some functions may not operate properly depending on the content.
- DRM-protected contents on DVD-R/-RW discs or on media servers that do not support WMDRM, and otherwise incompatible files are skipped.
- Please note, the following file naming structure needs to be adhered to when creating/renaming any digital media to be played on the unit (either through computer-created disc media, or the Home Media Gallery connection). This disclaimer does not apply to any media purchased at retail locations:
  Due to the coding system used, this player will only read/play files named using standard alphanumeric characters. Any other characters or symbols (e.g. characters with accents) used in naming the file will render it unreadable/unplayable by the unit. If you encounter any difficulties with playback of media, please rename the file in accordance to this standard.

Supported video formats

- **Windows Media Video 9 (WMV9)**
  – MP@HL
- **Windows Media Video 9 (WMV9) Advanced Profile (VC-1)**
  – AP@L3
- **MPEG-2 (PS/TS)**
  – MP@HL
- **MPEG-1**

Supported audio formats

- **Windows Media Audio 9 (WMA9)**
  – Bit rate: up to 192 kbps (constant bit-rate (CBR));
  up to 384 kbps (variable bit-rate (VBR))
  – Sampling rates: 44.1 kHz or 48 kHz
- **Windows Media Audio 9 Pro (WMA9 PRO)**
  – Bit rate: up to 768 kbps
  – Sampling rates: 44.1 kHz or 48 kHz
  – Channels: up to 5.1ch
- **MPEG-1 Audio Layer 3 (MP3)**
  – Sampling rates: 32 kHz, 44.1 kHz or 48 kHz
  – Bit rate: up to 320 kbps
- **Linear PCM (WAVE)**
  – Sampling rates: 44.1 kHz or 48 kHz

Supported image formats

- **JPEG**
  – Baseline JPEG and progressive JPEG/Exif are supported
  – Resolution: up to 4096 x 4096 pixels
- **PNG**
  – Resolution: up to 4096 x 4096 pixels
- **GIF**
  – Resolution: up to 4096 x 4096 pixels

File extensions

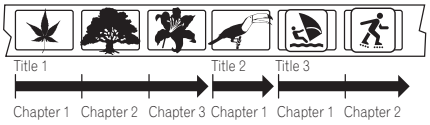
The following file extensions should be used with this player:

- **Video**
  .wmv .mpg .mpeg
- **Audio**
  .wma .mp3 .wav
- **Image**
  .jpg .jpeg .png .gif

Even when files have a supported file extension, some files may not play or display depending on the content or media server type.

Titles and chapters

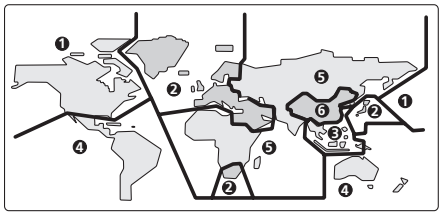
BD and DVD movie discs are divided into one or more titles. Titles may be further subdivided into chapters.



DVD-Video regions

All commercially produced DVD movies (DVD-Video discs) carry a region mark on the case somewhere that indicates which region(s) of the world the disc is compatible with. This player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. Discs marked **ALL** will play in any player.

The diagram below shows the various DVD regions of the world.



This player is **REGION 2**.

BD-ROM regions

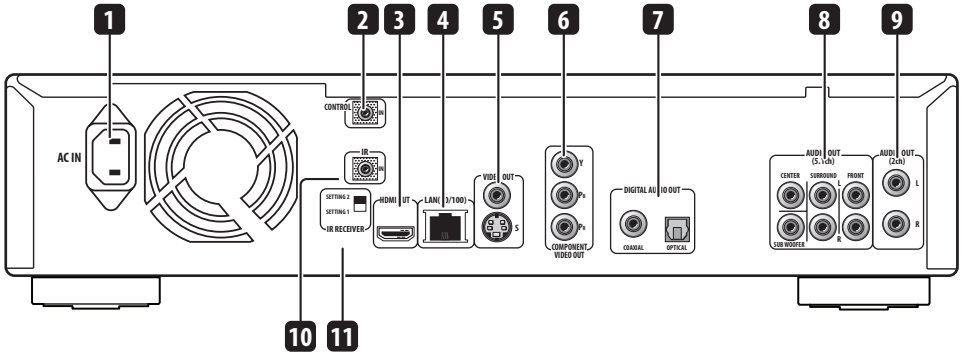
Like DVD movies, BD movie discs (BD-ROM) also carry a region mark that indicates which region(s) of the world the disc is compatible with. This player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. Discs marked **ALL** will play in any player.

The diagram below shows the various BD-ROM regions of the world.

This player is **REGION B**.

Chapter 2
Connecting up

Rear panel



1 AC IN
Connect the supplied power cord here, then plug into a power outlet.

2 CONTROL IN
Use to control this player from the remote sensor of another Pioneer component with a **CONTROL OUT** terminal and bearing the mark. Connect the **CONTROL OUT** of the other component to the **CONTROL IN** of this player using a mini-plug cord (page 14).

3 HDMI OUT
HDMI output providing a high quality interface for digital audio and video (page 11).

4 LAN (10/100)
Ethernet port for 10BASE-T (10 Mbps) or 100BASE-TX (100 Mbps) network connection (page 14).

5 VIDEO OUT and S-VIDEO OUT
Video output (composite) that you can connect to your TV or AV receiver using the supplied video cable (page 10).

S-Video output that you can use instead of the **VIDEO OUT** jacks (page 13).

6 COMPONENT VIDEO OUT
High quality video output for connection to a TV, monitor or AV receiver that has component video inputs.

Connect using a commercially available three-way component video cable (page 12).

7 DIGITAL AUDIO OUT – COAXIAL/OPTICAL
Digital audio outputs for connection to a PCM, Dolby Digital, and/or DTS-compatible AV receiver (page 13).

8 AUDIO OUT (5.1ch)
Multi-channel (5.1ch) analog audio outputs for connection to an AV receiver with multi-channel analog audio inputs (page 13).

9 AUDIO OUT (2ch)
Stereo analog audio outputs for connection to your TV, AV receiver or stereo system (page 10).

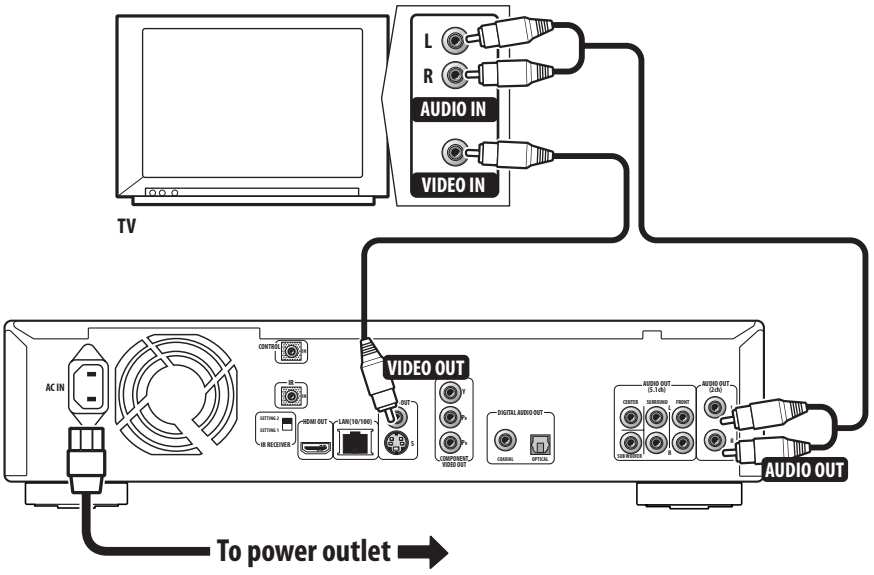
10 IR IN
Jack for an external IR (infrared) remote control receiver (page 14).

11 IR RECEIVER switch
Switch to the setting compatible with your external IR remote control receiver (page 14).

Tip

- When connecting this player to your TV, AV receiver or other equipment, make sure that all components are **switched off** and **unplugged**.
- You may find it useful to have the manuals supplied with your other components handy when connecting this player.

Easy connections



This is a basic setup that allows you to watch discs on your TV using just the cables supplied.

Important

- This player is equipped with copy protection technology. Do not connect this player to your TV via a VCR using AV cables, as the picture from this player will not appear properly on your TV. (This player may also not be compatible with some combination TV/VCRs for the same reason; refer to the manufacturer for more information.)
- Do not unplug the player from the power outlet while it is switched on.
- Do not plug this player into a switched power supply found on some amplifiers and AV receivers.

1 Connect the VIDEO OUT and one pair of AUDIO OUT jacks to a set of audio/video inputs on your TV.

Use the supplied red/white stereo audio and yellow video cables. Make sure you match up the left and right audio outputs with their corresponding inputs for correct stereo sound.

See *Using other types of video output* below if you want to use a different type of connection.

2 Connect the supplied AC power cord to the AC IN inlet, then plug into a power outlet.

Using other types of video output

This player has standard (composite), S-Video and component video outputs, as well as an HDMI connector (for digital video/audio).

In order to be able to watch HD (high definition) BDs at their full resolution, you should connect the player to your TV using either the component video output, or (even better) the HDMI output.

An HDMI connection will additionally give you HD output when watching DVDs.

If your display has neither of these connection types, an S-Video jack is also provided, which should give slightly better video quality than using the standard video output.

Connecting for HDMI output

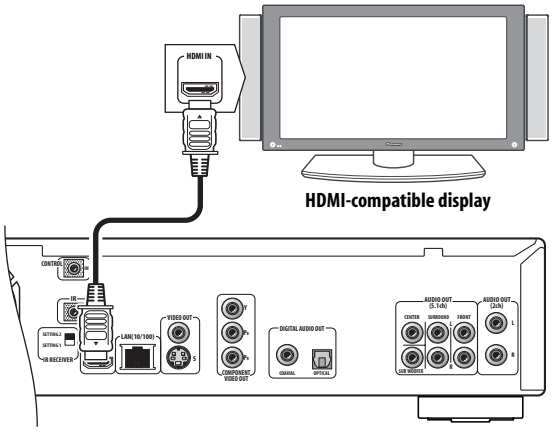
If you have an HDMI or DVI (with HDCP) equipped monitor or display, you can connect it to this player using a commercially available HDMI cable.

The HDMI connector outputs uncompressed digital video, as well as most digital audio formats.

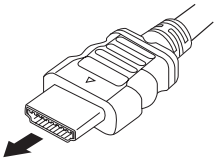
Important

- This unit has been designed to be compliant with HDMI (High-Definition Multimedia Interface). Depending on the component you have connected, using a DVI connection may result in unreliable signal transfers.
- If you change the display connected to the HDMI output, you will also need to change the Output Video Resolution settings to match the new display (see *Changing the output video resolution* on page 12 to do this).
- The HDMI connection is compatible with 8-channel linear PCM signals (44.1 kHz to 192 kHz[1], 16 bit/20 bit/24 bit), Dolby Digital bitstream and DTS (5.1 channel signals) bitstream.
- Depending on the HDMI cable being used, 1080p output may not appear correctly.
- If you connect a DVI device to the HDMI output of this player, ensure that it is compliant with High-bandwidth Digital Content Protection (HDCP). If you choose to connect to a DVI connector, you will need a separate adaptor (DVI→HDMI) to do so. A DVI connection, however, does not support audio signals. Consult your local audio dealer for more information.

- **Use an HDMI cable (supplied) to connect the HDMI OUT interconnect on this player to an HDMI interconnect on an HDMI-compatible display.**



- The arrow on the cable connector body should be face up for correct alignment with the connector on the player.



After switching on the player you may need to set the output video resolution and HDMI colour space for compatibility with your display. See *Changing the output video resolution* on page 12 and **HDMI Color Space** in *Using the Initial Setup menu* on page 39.

About HDMI

HDMI supports both standard and high-definition video, plus standard and multi-channel surround-sound audio. HDMI features include uncompressed digital video, one connector (instead of several cables and connectors), and communication between the AV source and AV devices such as DTVs.

HDMI was developed to provide the technologies of High-bandwidth Digital Content Protection (HDCP) as well as Digital Visual Interface (DVI) in one specification. HDCP is used to protect digital content transmitted and received by DVI-compliant displays.

About HDMI Control

You can enable HDMI Control by turning the *HDMI Control* setting to **On** for all components connected via HDMI cable. Check the video output from this unit once you have completed making connections and settings for all components. You will need to check the video output each time you change connected components or remove the HDMI cable.

Note

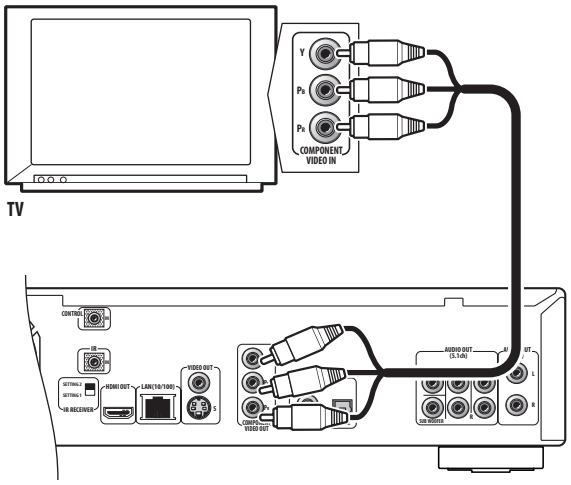
1 192 kHz output is limited to 2 channels.

Connecting using the component video output

You can use the component video output instead of the standard video out jack to connect this player to your TV (or other equipment).

- **Use a component video cable (not supplied) to connect the COMPONENT VIDEO OUT jacks to a component video input on your TV, monitor or AV receiver.**

Be careful to match up the colours of the three jacks for correct connection.



Changing the output video resolution

Use the **OUTPUT RESOLUTION** button located on both the front panel and the remote control to switch the output video resolution for the HDMI and component video outputs.

The table below shows the output settings.

Setting	TV system	HDMI output	Component output	Video/S-Video output
AUTO	PAL NTSC	*TV's preferred resolution* **3,5*	*TV's preferred resolution* **6*	576/50i 480/60i
576i or 480i	PAL NTSC	576/50i 480/60i	576/50i 480/60i	576/50i 480/60i
576p or 480p	PAL NTSC	576/50p 480/60p	576/50p 480/60p	576/50i 480/60i
720p	PAL NTSC	720/50p 720/60p	576/50i 720/60p **1,2*	576/50i 480/60i
1080i	PAL NTSC	1080/50i 1080/60i	576/50i 1080/60i **1,2*	576/50i 480/60i
1080p	PAL NTSC	1080/50p 1080/60p	576/50i 480/60i	576/50i 480/60i
Source Direct	PAL NTSC	*Dependent on source* **3,5*	*Dependent on source* **2,4,5*	576/50i 480/60i

***1** *Video output is 480i during copy protected DVD-Video playback.*

***2** *Video output during BD-ROM playback is 576i/480i depending on the disc.*

***3** *Refer to 24p output below for conditions.*

***4** *The frame frequency for 1080/24p is still 60 Hz.*

***5** *The video output will be interrupted when switching the video output.*

***6** *For resolutions that cannot be output by component output, video is output in the following resolutions:*
PAL: 576/50i
NTSC: 480/60i

Note

- Depending on your display, some of the settings may result in the picture disappearing. In this case, press **OUTPUT RESOLUTION** repeatedly until the picture re-appears.
- 720/50p, 1080/50i, 1080/50p, 1080/60p and 1080/24p output is only compatible with HDMI displays. They are not compatible with the component video output.
- When *Output Video Resolution* is set to **720p**, **1080i** or **1080p**, video is output in 16:9 format even if *TV Aspect Ratio* is set to **4:3 (Standard)**. See *TV Aspect Ratio* on page 39.
- If the contours of the displayed subjects look jagged or blurred, try setting the Output Video Resolution to 576i/480i. (If you connected this player to your TV with the HDMI connection and the picture disappears when you switch the Output Video Resolution to 576i/480i, use the component connection with the 576i/480i Output Video Resolution or S-Video, the standard composite connection instead.)
- Note that when using a Component Video connection with a TV or other AV component (*not* using HDMI), 480/60i video may be output in 480/60p, and 576/50i video may be output in 576/50p.

24p output

For smooth presentation of 1080/24p or 720/24p video with an HDMI-equipped display compatible with 1080/24p input, set *24p Direct Out* on this player to **On** (see page 39).

This player will output 1080/24p video over HDMI in the following cases:

- 1080/24p video: When the Output Video Resolution is set to **Auto** or **Source Direct**.
- 720/24p video: When the Output Video Resolution is set to **Auto**.

Note

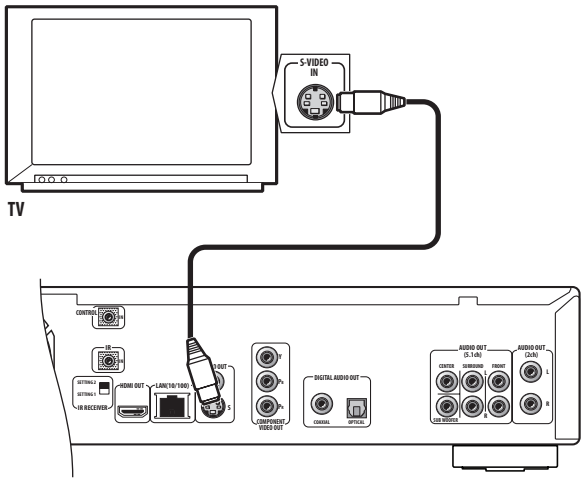
- Even when *24p Direct Out* is set to **On**, if a TV not compatible with 1080/24p video is connected, the actual frame frequency of the video output will be 60 Hz.
- The video output will be interrupted when switching the video output from 1080/24p or 720/24p to other output video resolutions, or when switching to 1080/24p or 720/24p from other output video resolutions.

Connecting using an S-Video output

You can use the S-Video output instead of the **VIDEO OUT** jack to connect this player to your TV (or other equipment).

- **Use an S-Video cable (not supplied) to connect the S-VIDEO OUT to an S-Video input on your TV, monitor or AV receiver.**

Line up the small triangle above the jack with the same mark on the plug before plugging in.



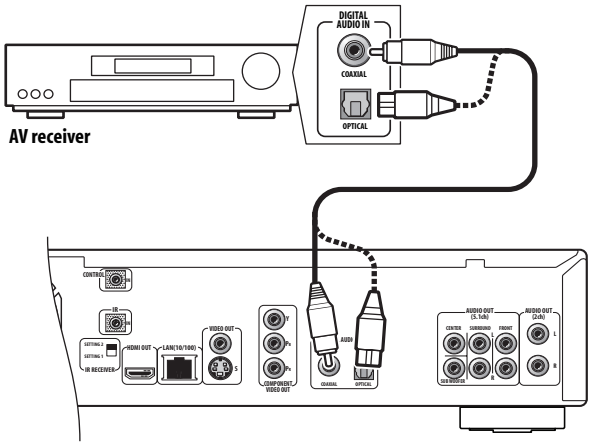
Connecting for surround sound

This player offers both analog and digital connections for surround sound. The digital outputs (coaxial and optical) provide a convenient way to connect this player to an AV receiver with built-in Dolby Digital and/or DTS decoders. The 5.1ch analog outputs can be used to connect to an AV receiver with multi-channel analog audio inputs.

Check the operating instructions that came with your AV receiver for more on these connections.

Digital connections

- **Connect one of the DIGITAL AUDIO OUT jacks on this player to a digital input on your AV receiver.**



Optical connection: Use an optical cable (not supplied) to connect the **DIGITAL AUDIO OUT – OPTICAL** jack to an optical input on your AV receiver.

- When inserting the plug, the protective shutter will open and you should hear the plug click into position when fully inserted. Take care not to force the plug as this may damage the shutter, the cable and/or the player.

Coaxial connection: Use a coaxial cable (not supplied) to connect the **DIGITAL AUDIO OUT – COAXIAL** jack to a coaxial input on your AV receiver.

Note

- Linear PCM audio output over the **DIGITAL AUDIO OUT** jacks is limited to 2ch, 48 kHz.

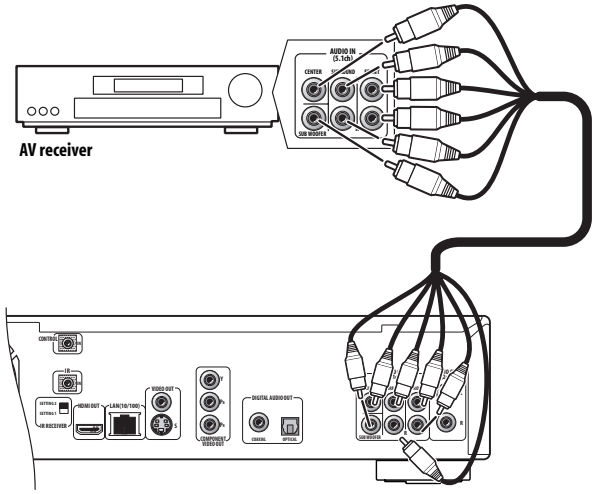
Analog connections

- **Connect the AUDIO OUT (5.1ch) jacks on this player to the multi-channel analog inputs on your AV receiver.**

Use a dedicated six-way cable (not supplied), or three sets of stereo cables (not supplied) to connect the six channels.

Check carefully that each channel is connected to its corresponding channel on the AV receiver.

After connecting, you can make settings for the number of speakers connected to your system — see the Speakers section of the Initial Setup menu on page 41 and *Speaker Setup* on page 43.



Network connection

This player can be connected to a local area network (LAN) via the Ethernet port on the rear panel.

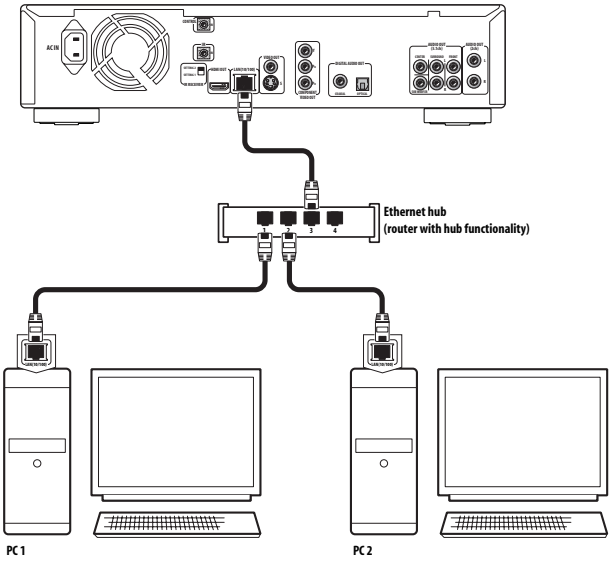
After making the physical connection the player needs to be set up for network communication. This is done from the Initial Setup menu — see *Setting up for network use* on page 19 for detailed instructions.

For best performance, we recommend using a 100BASE-TX compatible PC and Ethernet hub.

Connecting via an Ethernet hub

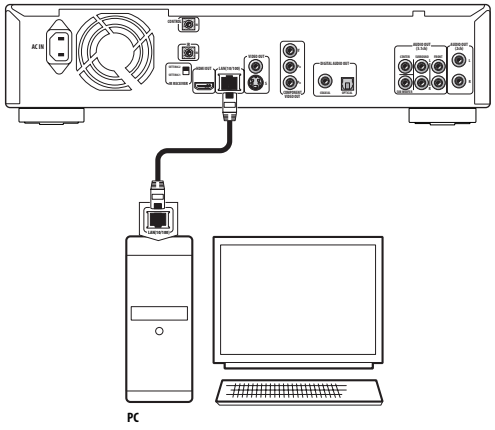
If you already operate one or more PCs on a local area network, you can integrate this player by connecting it to the Ethernet hub using the included LAN cable.

In the example configuration below, this player would be able to access content from either of the PCs.



Connecting directly to a PC

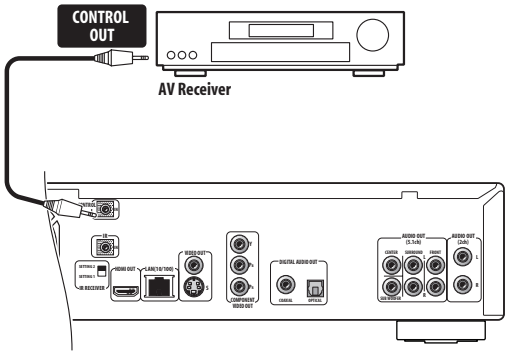
If you only need to use one PC to act as a media server, you can connect this player directly to the PC using the included LAN cable.



Controlling this player via another Pioneer component

The **CONTROL IN** jack allows you to control this player via the remote control sensor of another Pioneer component — typically an AV receiver — that has a **CONTROL OUT** jack. Remote control signals are passed through to the player from the remote sensor of the other component, allowing you greater freedom in the placement of your player.

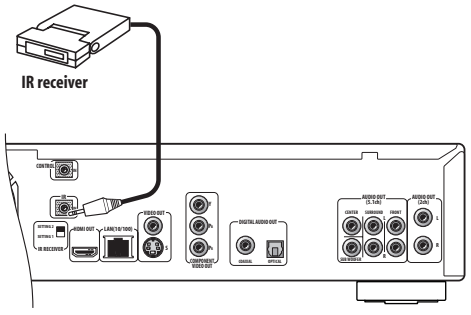
- **Use a miniplug cord (not supplied) to connect the CONTROL IN jack of this player with the CONTROL OUT jack of your other Pioneer component.**



- You will also need to connect a coaxial digital cable, analog audio cable, or video cable.
- When connected via System Control, point the remote control toward the connected component (such as an AV receiver). The remote will not work correctly when pointed at this unit.
- You cannot connect use System Control with components that do not have a System Control jack or with components manufactured by companies other than Pioneer.

Using an external IR receiver with this player

If you prefer to keep your AV equipment in a closed cabinet, you can use an external IR receiver connected to the **IR IN** jack. You can thus have just the receiver outside of the cabinet and still be able to control the player.

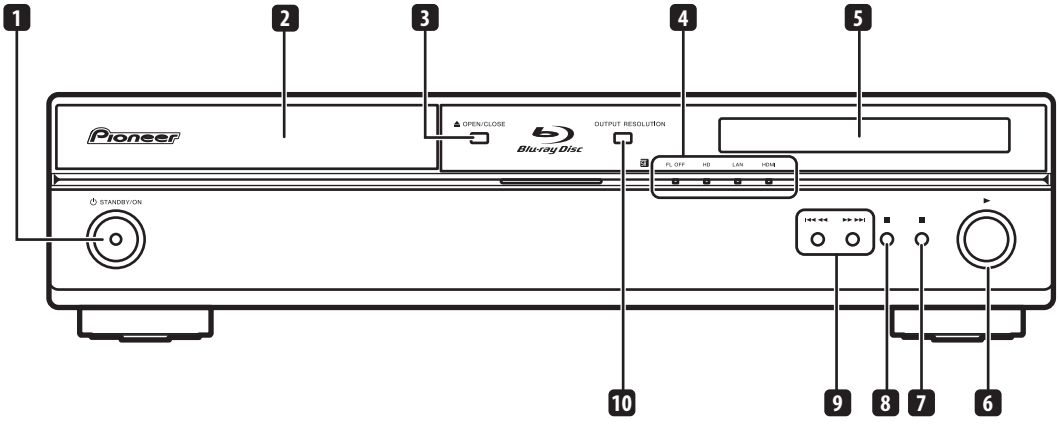


Tip

- You may need to set the **IR RECEIVER** switch (located under the **IR IN** jack) for this player to recognize the IR receiver correctly.
- This player does not supply power to the external IR receiver. Please see the operating instructions of the IR receiver for the power requirements.

Chapter 3
Controls and displays

Front panel



1 ⏻ STANDBY/ON
Press to switch the player on (the power indicator and indicator in the middle of the unit light up when the power is on) or into standby.

2 Disc tray

3 ⏏ OPEN/CLOSE
Press to open or close the disc tray.

4 Indicators
- **FL OFF** – Lights when the display and other indicators are switched off.
- **HD** – Lights when the video output is 720p, 1080i or 1080p (HDMI), or 720p or 1080i (component).
- **LAN** – Lights when there is an active local area network (LAN) connection.
- **HDMI** – Lights when a device is connected via HDMI.

5 Display
Shows disc status and playback information.

6 ►
Press to start or resume playback.

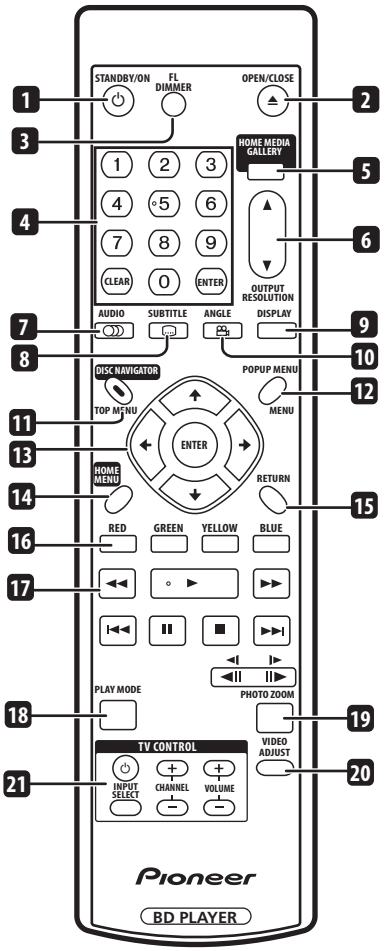
7 ■
Press to stop playback (you can resume playback by pressing ►).

8 ❚❚
Press to pause playback. Press again to restart.

9 Skip/scan buttons
- ►►/►►| – Press to jump to the next chapter, track, etc. Press and hold for fast forward scanning.
- |◄◄/◄◄ – Press to jump back to the beginning of the current chapter, track, etc. then to previous chapters, tracks, etc. Press and hold for fast reverse scanning.

10 OUTPUT RESOLUTION
Press to switch the output resolution over HDMI and component video outputs. See *Changing the output video resolution* on page 12.

Remote control



1 ⏻ STANDBY/ON
Press to switch the player on or into standby.

2 ⏏ OPEN/CLOSE
Press to open or close the disc tray.

3 FL DIMMER
Press to change the brightness of the display. When the display and other indicators are off, the **FL OFF** indicator (see page 15) lights.

4 Number buttons
Use to enter title, chapter or track numbers, etc.

CLEAR: Press to clear a numeric entry, etc.

ENTER: Press to select an option or execute a command.

5 HOME MEDIA GALLERY
Press to display the Home Media Gallery screen (see page 30).

6 OUTPUT RESOLUTION
Press to switch the output resolution over HDMI and component video outputs (see page 12 and page 23).

7 AUDIO
Press to select the audio channel or language (see page 23).

8 SUBTITLE
Press to select a subtitle display (see page 23).

9 DISPLAY
Press to display information (see page 23).

10 ANGLE
Press to change the camera angle during BD-ROM or DVD-Video movie multi-angle scene playback (see page 23).

11 DISC NAVIGATOR/TOP MENU
Press to display the top menu of a BD-ROM or DVD-Video disc. When playing a DVD-R/-RW disc, press to display/exit the Disc Navigator.

12 POPUP MENU/MENU
BD-ROM: Press to display/hide the pop-up menu.
DVD-Video: Press to display the disc menu (if there is one).

13 ↑/↓/←/→ and ENTER
Use to navigate on-screen displays and menus. Press **ENTER** to select an option or execute a command.

14 HOME MENU
Press to display the player's Home Menu, from which you can access most of the player's functions.

15 RETURN
Press to return to a previous screen.

16 RED/GREEN/YELOW/BLUE
Use to navigate BD-ROM menus.

17 Playback controls

◄◄/►►: Press to start reverse/forward scanning.

►: Press to start or resume playback.

II: Press to pause playback; press again to restart.

■: Press to stop playback (you can resume playback by pressing ►).

I◄◄ ►►I: Press to jump to the start of the previous/next chapter/track.

◄II IIB►/◄I I►: Use for slow motion and step frame (see page 22).

18 PLAY MODE
Press to change the Play Mode (repeat play, for example) (see page 22).

19 PHOTO ZOOM
Press to zoom the screen when displaying a still image (see page 23).

20 VIDEO ADJUST
Press to display the Video Adjust screen (see page 37).

21 TV CONTROL buttons
See also *Resetting the player* on page 45.

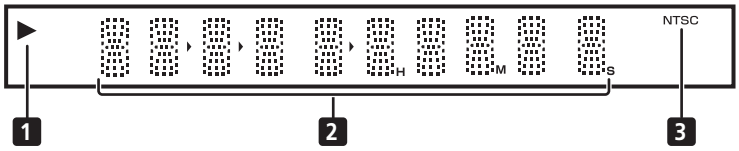
⏻: Press ⏻ to turn the TV on or into standby.

VOLUME +/–: Use to adjust the volume.

CHANNEL +/–: Use to select TV channel.

INPUT SELECT: Press to change the input function of the TV.

Front panel display



1 ►
Lights during playback of a disc.

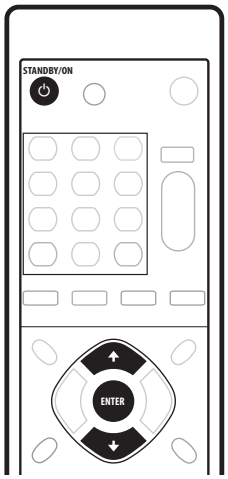
2 Character display
Shows various playback information — disc time, chapter and title number, etc.

3 NTSC
Lights when the video output signal format is NTSC.

Chapter 4
Getting Started

Switching on and setting up

When you switch the player on for the first time the Setup Navigator screen appears. We recommend using this to make a few basic player settings.

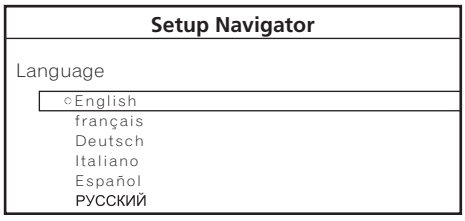


1 Switch on your TV and set the video input to this player.

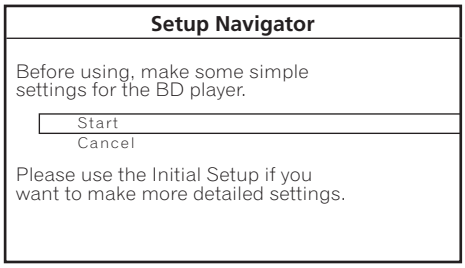
2 Press the ⏻ STANDBY/ON button on the remote control or the front panel to switch on.

- It can take up to one minute for the unit to turn on.
- When you switch on for the first time, your TV should display the Setup Navigator screen. (If the Setup Navigator doesn't appear, you can also access it from the Initial Setup menu; see page 41).
- When you have this unit connected to a plasma television that is compatible with HDMI Control, language settings are imported from the plasma television's OSD settings before Setup Navigator begins.

3 Use the ⬆/⬇ buttons to choose a language, then press ENTER.

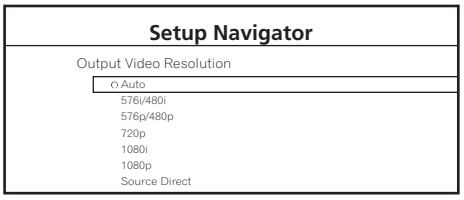


4 Press ENTER to start setting up using the Setup Navigator.

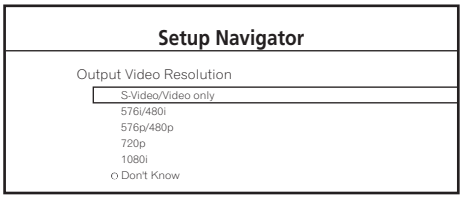


If you don't want to use the Setup Navigator, press ⬇ to select **Cancel**, then press **ENTER** to exit the Setup Navigator.

5 Use the ⬆/⬇ buttons to select the output video resolution then press ENTER.



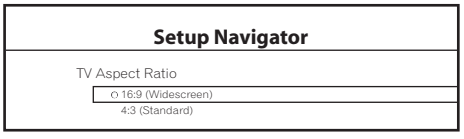
If you connected this player to your TV using the HDMI connector, select from **Auto**, **576i/480i** (interlaced), **576p/480p** (progressive), **720p**, **1080i**, **1080p**, or **Source Direct**, then skip to step **7** (the aspect ratio will automatically be set to **16:9 (Widescreen)**). Generally, the **Auto** setting is recommended.



If you're using an S-Video or composite video connection, select **S-Video/Video only**.

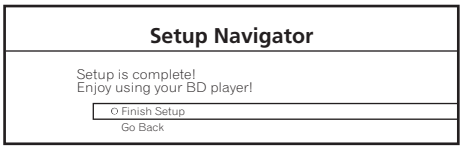
If you're using a component video connection, match the output setting with the capabilities of your TV. Select from: **576i/480i**, **576p/480p**, **720p**, **1080i** or **Don't Know**. If you select **720p** or **1080i**, skip the next step since the aspect ratio will automatically be set to **16:9 (Widescreen)**.

6 Use the ⬆/⬇ buttons to select the aspect ratio of your TV then press ENTER.



If you have a widescreen TV, select **16:9 (Widescreen)**; if you have a standard size TV, select **4:3 (Standard)**.

7 Select 'Finish Setup' to accept the settings and exit the Setup Navigator, or 'Go Back' to go through the settings again.



You can run the Setup Navigator at any time by selecting it from the Options menu — see page 41.

About the screen saver

If the player is stopped or paused for more than five minutes with no other operation, the screen saver starts.

Once the screen saver has started, pressing any button on the front panel or remote will clear it and return the player to normal operation.

The screen saver starts for CDs and music files after five minutes pass without any commands input, whether or not playback has been paused or stopped.

Using the on-screen displays

This player makes extensive use of graphical on-screen displays (OSDs). You should get used to the way these work as you'll need to use them when setting up the player, using some of the playback features, and when making more advanced settings for audio and video.

All the screens are navigated in basically the same way, using the cursor buttons (↑/↓/←/→) to change the highlighted item and pressing **ENTER** to select it.

Button	What it does
HOME MENU	Display/exit the on-screen display
↑ ↓ ← →	Changes the highlighted menu item
ENTER	Selects the highlighted menu item
RETURN	Returns to the previous menu or screen without saving changes

Tip

- Information at the bottom of an OSD screen explains the currently selected menu item and shows which buttons can be used for that screen.

Setting up for network use

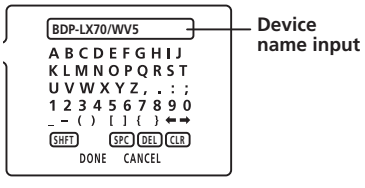
If you've connected this player to a local area network (LAN) you may need to make a few settings before you can use the Home Media Gallery feature over the network.

1 Press HOME MENU and select 'Initial Setup'.

2 Select 'Network'.

3 Select 'Device Name' then 'Next Screen'.

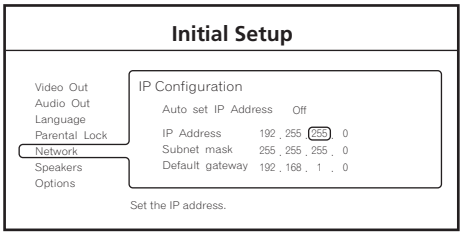
4 Use the on-screen keypad to enter a name for the player.
This is how the player will appear to connected devices on the local area network.



- Use the ↑/↓/←/→ buttons and **ENTER** to select characters from the keypad.
- Select **SHFT** to toggle between upper and lower case.
- Select **SPC** to insert a space.
- Select **DEL** to delete the character at the current cursor position in the name field.
- Select **CLR** to clear the name field.

5 Select 'DONE' to register the name and exit the input screen.
Select **CANCEL** to close the keypad without registering the name.

6 Select 'IP Configuration' then 'Next Screen' to display the IP configuration screen.



7 Set 'Auto set IP Address' to 'On'.
If there is a DHCP server on the local area network (LAN), this player will automatically be allocated an IP address. If you're using a broadband router or broadband modem that has a DHCP (Dynamic Host Configuration Protocol) server function, select **On**. The IP address will automatically be determined.

If there is no DHCP server on the network and you select **On**, this player will use its own Auto IP function to determine the IP address.

- If you want to set the IP address manually, select **Off** then set the IP Address, Subnet mask and Default gateway: Use the ↑/↓/←/→ buttons to select a field; use the number buttons to enter a value. Press **ENTER** to finish and exit the screen.

8 Press HOME MENU to exit the Initial Setup menu.
You should now be able to use the Home Media Gallery (accessible from the Home Menu). See *Using the Home Media Gallery* on page 30 for more.

- For information on DHCP refer to the network device's operating instructions.
- You may need to contact your service provider or network administrator when manually entering an IP address.

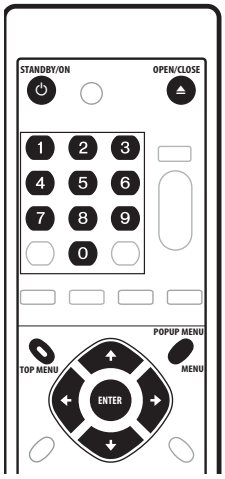
Playing movies, music and photos

Using this player, you can enjoy watching movies, listening to music and browsing photos, from BD and DVD discs or from a media server on the network. How you navigate, browse and play content varies according to the format of the content and the media:

- To play a BD or DVD movie disc (i.e., one containing BD-ROM or DVD-Video application format), see *Playing BD/DVD movies and audio CD* below.
- To play a DVD-R/-RW disc recorded with movie, music or photo files, turn to *Using the Disc Navigator* on page 25.
- To play content from a media server, please refer to *Using the Home Media Gallery* on page 30.

Playing BD/DVD movies and audio CD

The basic playback controls for playing BD/DVD movies and audio CD discs are covered here. Further functions are detailed in the next chapter.



1 If the player isn't already on, press ⏻ STANDBY/ON to switch it on.

Also turn on your TV and make sure that it is set to the correct video input.

2 Press ⏏ OPEN/CLOSE to open the disc tray.

3 Load a disc.

Load a disc with the label side facing up, using the disc tray guide to align the disc (if you're loading a double-sided DVD-Video disc, load it with the side you want to play face down).

The player will take a short while to read the disc, after which the disc type will show up in the front panel display.

4 Press ▶ to start playback.

- Use the **❚❚ PAUSE** and ■ buttons to pause or stop playback. You can resume playback in either case by pressing ▶. See also *Resuming playback* on page 21.
- See *Playback controls* on page 21 for other controls available during playback.

When playing BD-ROM discs:

- Commercially produced BD-ROM movie discs often go straight to the disc menu when playback is started (sometimes preceded by an opening sequence). Navigate through the disc menu using the cursor keys (↑/↓/←/→) and the **ENTER** button. You can also use the number buttons to select numbered items in some menus.
- To get back to the top menu, press **TOP MENU**.
- Some BD-ROM discs feature pop-up menus that do not interrupt playback; press **POPUP MENU/MENU** to access these.

When playing DVD-Video discs:

- Commercially produced DVD movies often go straight to the disc menu when playback is started (sometimes preceded by an opening sequence). Navigate the disc menu using the cursor (↑/↓/←/→) and **ENTER** buttons. You can also use the number buttons to select numbered items in some menus.
- To get back to the top menu, press **TOP MENU**.
- To get back to the disc menu, press **POPUP MENU/MENU**.

When playing audio CDs:

- For more information see *Playback controls* on page 21.

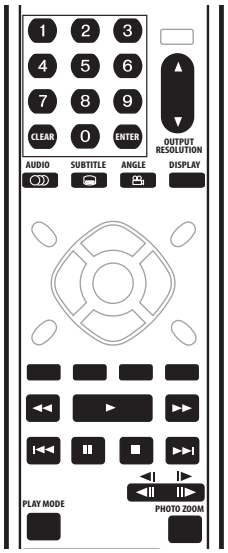
5 When you've finished using the player, eject the disc and switch the player back into standby.

- To open/close the disc tray, press ⏏ **OPEN/CLOSE**. Remove the disc before putting the player into standby.
- Press ⏻ **STANDBY/ON** to switch the player into standby.

About NTSC/PAL TV systems

The TV system setting is set to PAL when you turn the player on. When video output in NTSC is played back, the TV system setting is automatically changed. When video is stopped, playback is resumed with video output in the last format used.

Playback controls



Resuming playback

■ → ►

The resume function offers a convenient way to restart playback from where you stopped it previously.

Resuming playback of BD/DVD movies and audio CDs

If you stop playback before the end of the disc, the playback stop position is stored so that you can resume watching the disc from the same place later.

- To resume playback, press ►. Playback will start from the stored resume position. For audio CDs, playback resumes from the beginning of the track.
- Press ■ again to cancel the resume function.

Note

In the following case, the resume position is cleared:

- Eject the disc.
- Use Home Media Gallery/Disc Navigator.
- Switch the player off (DVD resume position remains saved).
- Certain BD-ROM discs cannot be restarted from the position in which they are paused.

Resuming playback of movie, music and photo files

Movie and music files are resumed from the start of the title/track (rather than the stop position within the title/track): photo slideshow playback is resumed from the photo file within the slideshow.

- If you interrupt playback of a movie or slideshow by pressing **RETURN** to display the Disc Navigator or Home Media Gallery screen, you can still resume playback of the same title/slideshow photo using the ► button, regardless of what is highlighted on the screen. (Use the **ENTER** button to start playback of the currently highlighted item in the Disc Navigator/Home Media Gallery.)
- Some actions in the Disc Navigator/Home Media Gallery (such as changing the Browse category) will cause the resume position to be lost.

Scanning video and audio

◄◄ ►►

You can fast-scan BD/DVD movies, audio CDs, or movie and song files forward or backward at various speeds.[1]

1 During playback, press ◄◄ or ►► to start scanning.
There is no sound while scanning video and audio.

2 Press repeatedly to increase the scanning speed.
The scanning speed is shown on-screen.

3 To resume normal playback, press ►.
Depending on the disc, normal playback may automatically resume when a new chapter is reached on a BD/DVD movie disc.

Selecting titles, chapters and tracks directly

You can select titles, chapters and tracks directly with BD, DVD movies and audio CDs[2].

- **Use the number buttons to select a title, chapter or track.**
  - If the disc is stopped, playback starts from the selected title or track.
  - If the disc is playing, playback jumps to the start of the selected chapter or track.

Skipping content

I◄◄ ►►I

You can skip over content during playback of BD and DVD movies, Audio CDs, movie and song files, and photo slideshows.

- **During playback, press I◄◄ or ►►I to skip content.[2]**
  - When playing a BD or DVD movie, playback jumps to the start of the previous/next title, chapter or track. (If the disc is stopped, playback will start.)
  - During movie or song file playback, the previous or next file will start playing.
  - During photo slideshow playback, you can skip to the previous or next photo.

Note

1 This function may not be supported depending on the content or server software.
2 With some titles on BD-ROM or DVD-Video discs it is not possible to jump to the start of the selected title or chapter.

Playing video in slow motion

You can play BD and DVD movies and movie files at different forward slow motion speeds.[1]

1 During playback, press II► to start slow motion playback.
- The slow motion speed is shown on-screen.
- There is no sound during slow motion playback.

2 Press repeatedly to change the slow motion speed.

3 To resume normal playback, press ►.
Depending on the disc, normal playback may automatically resume when a new chapter is reached.

Video step forward and step reverse

You can use step forward and step reverse when playing a BD or DVD movie or movie files.[1, 2]

1 During playback, press II PAUSE.

2 Press ◄I or I► to move the video forward or back one step.

3 To resume normal playback, press ►.
When playing a BD or DVD movie, normal playback may automatically resume when a new chapter is reached.

Changing the Play Mode

Use the **PLAY MODE** button on the remote control to select one of the various playback modes for BD and DVD movie discs, audio CD discs, movie and music files and photo slideshows.

You can't select a Play Mode while a BD or DVD disc menu is being displayed, or while playing some BD/DVD movie titles, audio CD, or movie and music files and photo slideshows.

• During playback, press PLAY MODE to change the Play Mode.
See *Play Mode option compatibility* below for the options available with the disc/file you're playing.

- **Time Search** (see *Using time search* below)
- **Title Search** (see *Using title search* below)
- **Repeat Chapter** (repeats the current chapter)
- **Repeat Title** (repeats the current title)
- **Repeat Track** (repeats the current track)
- **Repeat All** (repeats the current browse list)
- **Random** (play tracks from an audio CD, music files, or photo files in a random order)
- **Repeat Off** (cancels the repeat and random modes)

The current Play Mode is displayed on-screen. Press **CLEAR** to resume normal playback.

Play Mode option compatibility

The available options depend on what kind of disc/file is playing (✓=available / ✗=unavailable):[3]

Play Mode Option	Disc / file type					
	BD-ROM	DVD-VIDEO	PC File (Music)	PC File (Movie)	PC File (Photo)	Audio CD
Time Search	✓	✓	✗	✓	✗	✗
Title Search	✓	✓	✗	✗	✗	✗
Repeat Chapter	✓	✓	✗	✗	✗	✗
Repeat Title	✓	✓	✗	✓	✗	✗
Repeat Track	✗	✗	✓	✗	✗	✓
Repeat All	✗	✗	✓	✗	✓	✓
Random	✗	✗	✓	✗	✓	✓
Repeat Off	✓	✓	✓	✓	✓	✓

Using time search

You can navigate directly to a certain point in a BD or DVD movie, or in a movie file.[1,3]

1 During playback, press PLAY MODE and select 'Time Search'.

2 Use the number buttons to enter a time in hours, minutes and seconds for playback to resume from.
For a BD or DVD movie, the time you enter should be the time into the currently playing title. For a movie file it will be the playback time into the file.

- For example, press **4**, **5**, **0**, **0** to have playback start from 45 minutes into the title/file. For 1 hour, 20 minutes, press **1**, **2**, **0**, **0**, **0**.
- Press **CLEAR** to clear the input.

3 Press ENTER to start playback from the time you entered.

Using title search

You can directly jump to the start of any title on a BD-ROM or DVD-Video.[1,3]

1 During playback, press PLAY MODE and select 'Title Search'.

2 Use the number buttons to select a title.
Press **CLEAR** to clear the input.

3 Press ENTER to start playback of the title you selected.

Note
1 This function may not be supported depending on the content or server software.
2 You cannot use step reverse with movie files.
3 With some BD-ROM and DVD-video titles, it is not possible to select any Play Mode options.

Switching camera angles

ANGLE

Some BD and DVD movies feature scenes shot from two or more angles — check the disc box for details.

- **During playback, press ANGLE to switch the angle.**
  - There may be a short delay after pressing the button before the angle changes.
  - Playback resumes if the angle is changed while paused.

Zooming the screen

PHOTO ZOOM

During playback of a photo slideshow you can zoom the screen to 2x view or 4x view.

1 During playback, press PHOTO ZOOM to change the zoom.
Press repeatedly to cycle through: normal → 2x zoom → 4x zoom.

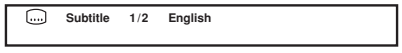
2 Use the cursor keys (↑/↓/←/→) to move the zoomed area of the screen.
The zoom mode is cancelled when you stop playback.

Switching subtitles

SUBTITLE

Some BD and DVD movie discs have subtitles in one or more languages; the disc box will usually tell you which subtitle languages are available.

1 Press SUBTITLE repeatedly to select a subtitle option.[1]
The current subtitle language/option is displayed on-screen and in the front panel display.



2 To switch the subtitle display off, press SUBTITLE then CLEAR.
There may be a short delay after pressing the button before the subtitles change.

Tip

- To set subtitle language preferences, see *Subtitle Language* on page 40.

Switching audio streams/channels

AUDIO

Some BD and DVD movie discs contain multiple audio streams that you can select on playback. These might be different audio languages and/or different audio formats (such as a DTS 5.1-channel sound track and a Dolby Digital 2-channel sound track).

- **Press AUDIO repeatedly to select an audio channel/stream option.**[2]
The current option is shown on-screen.

Switching audio languages on a BD/DVD movie

- There may be a short delay after pressing the button for the audio channel to change.

Tip

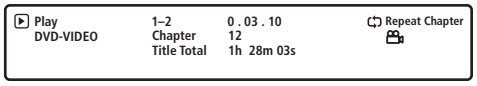
- Even when multiple audio streams are included in a movie file, you cannot select from among them while playing back of a movie file.
- To set audio language preferences, see *Audio Language* on page 40.

Displaying disc or file information

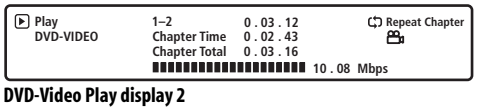
DISPLAY

Various track, chapter and title information, as well as the video transmission rate for DVD and BD movies, can be displayed on-screen. The information available depends on the type disc or file, and whether it's playing or stopped.

- **Press DISPLAY to show/switch the information displayed.**
Press **DISPLAY** repeatedly to change the displayed information.[3]



DVD-Video Play display 1



DVD-Video Play display 2

Switching the output video resolution

OUTPUT RESOLUTION

You can switch the output video resolution for HDMI and component output.

- **Press OUTPUT RESOLUTION repeatedly to select an output video resolution.**
The current source and output video resolution are shown on-screen.

Note

- Depending on your display, some of the settings may result in the picture disappearing. In this case, press **OUTPUT RESOLUTION** repeatedly until the picture re-appears.
- See *Changing the output video resolution* on page 12 for more information.

Note

1 Some discs only allow you to change the subtitle language from the disc menu. Press **POPUP MENU/MENU** to access.
2 Some discs only allow you to change the audio language from the disc menu. Press **POPUP MENU/MENU** to access.
3 There may be instances with some discs where no information can be displayed.

Frequently Asked Questions

- *Why won't the disc I loaded play?*

  First check that you loaded the disc the right way up (label side up), and that it's clean and not damaged. See *Taking care of your player and discs* on page 44 for information on cleaning discs.

  If a disc loaded correctly won't play, it's probably an incompatible format or disc type. See *Disc/content format playback compatibility* on page 6 for more on disc compatibility.

- *There's no picture!*

  Your TV is probably not compatible with the selected video output resolution. Check your TV for compatibility with progressive scan video and higher resolutions. Press the **OUTPUT RESOLUTION** button to switch the video output. See also *Changing the output video resolution* on page 12.

- *I can't see any picture, or get high definition video output when playing some BDs!*

  When playing some discs, there may be no composite video, S-Video and/or component video output, or high-definition content may be converted to standard-definition 576i/480i or 576p/480p component output. This is for content protection. To view the disc, connect the player to an HDMI-compatible display. See *Connecting for HDMI output* on page 11.

- *I have a widescreen TV so why are there black bars at the top and bottom of the screen when I play some discs?*

  Some movie formats are such that even when played on a widescreen TV, black bars appear at the top and bottom of the screen. This is not a malfunction.

- *I've connected to a HDMI/DVI compatible component but I can't get any signal and the front panel HDMI indicator won't light!*

  Make sure that you've selected this player as the HDMI input in the settings for the component you're using. You may need to refer to the instruction manual of the component to do this.

  An HDMI connection can only be made with other HDMI components, or a High-bandwidth Digital Content Protection (HDCP)-compatible DVI component. See *Connecting for HDMI output* on page 11 for more on HDMI compatibility.

- *There's no picture from the HDMI output!*

  Make sure the output resolution of this player matches that of the component you have connected using HDMI. See *Changing the output video resolution* on page 12.

- *Why is the playback sample rate of the DVD only 48 kHz instead of 96 kHz?*

  Playback sample rate of the audio is downsampled to 48 kHz.

- *My AV receiver is definitely compatible with 96 kHz Linear PCM audio, but it doesn't seem to work with this player. What's wrong?*

  192 kHz/96 kHz BD and 96 kHz DVD discs only output digital audio downsampled to 48 kHz through the optical and coaxial outputs.

  96 kHz 7.1ch BD discs only output digital audio downsampled to 48 kHz through HDMI output when video output is 576i/480i or 576p/480p over HDMI. These are not malfunctions.

- *Why is the mono audio on some discs rather quiet compared to other discs?*

  When mono audio is split into the L and R channels, there may be a small loss of volume.

- *There's no sound when connected using HDMI!*

  You won't hear any sound from the HDMI output if your component is only DVI/HDCP-compatible.

- *I can't connect to my local area network!*

  First of all check the settings of the media server you're using. Make sure that if you made the network settings automatically on this player then you also select auto setup on the server. (Likewise, if you made the settings manually on the server, you should set up this player manually.)

  Check also that you are using the right kind of LAN cable for the type of connection you made: a standard straight LAN cable if this player is connected to a hub; a crossed LAN cable for direct connection to a PC. See also *Network connection* on page 14.

Chapter 5

Using the Disc Navigator

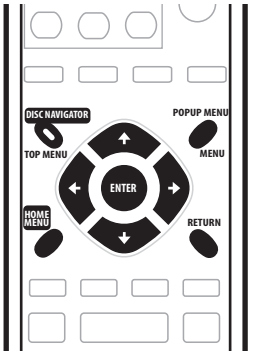
Use the Disc Navigator to browse through the PC files on a DVD-R/-RW disc to find what you want to play. Additionally, PC files contained on a BD-ROM can be played back from Disc Navigator. You can use the Disc Navigator when a disc is playing or stopped.

Important

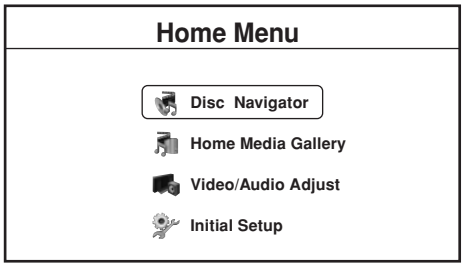
- It's not possible to use the Disc Navigator with DVD-Video discs, or with Audio CDs.
- You cannot use Disc Navigator with BD-ROM discs that do not contain PC files.

Introduction

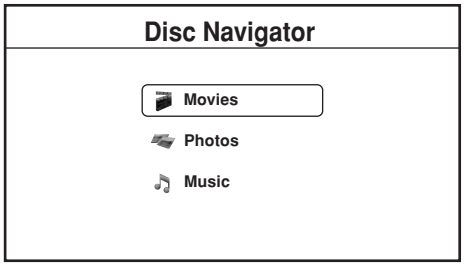
Most of the features described in this chapter make use of on-screen displays. Navigate these using the ⬆/⬇/⬅/➡ and **ENTER**. To go back to the previous menu or screen, use the **RETURN** button. The button guide at the bottom of every screen shows which buttons do what.



1 Press HOME MENU and select 'Disc Navigator' from the on-screen display.
Alternatively, press **DISC NAVIGATOR**.



2 Select 'Movies', 'Photos' or 'Music'.
See the sections below for more information on each of these.



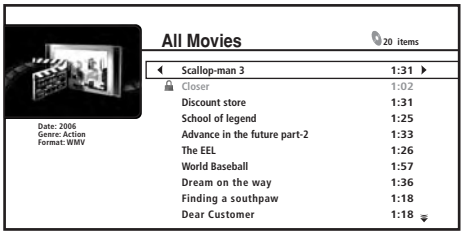
3 Press HOME MENU to exit the Disc Navigator screen.

Movie Navigator

The movie section of the Disc Navigator allows you to browse and play all the compatible movie files stored on the loaded BD-ROM or DVD-R/-RW disc (non-movie files are not displayed).

See also *File compatibility* on page 7 for more on compatible file types.

1 If you haven't already done so, select 'Disc Navigator' from the Home Menu, then 'Movies'.
You should see a list of all the movie files found on the disc, together with their playing times.



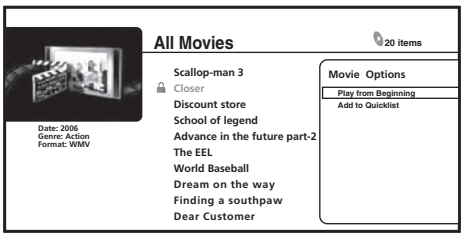
- When the movie length cannot be determined, it is displayed as "-:--".

2 Use the ⬆/⬇ buttons to change the current selection (highlighted in yellow).
On the left side of the screen you can see file information, such as the genre, date and file format, for the current selection.

3 Press ENTER to play the currently highlighted movie.
Press ► to start or resume playback from the last title played.

Displaying the Movie Options menu

- **Press ➡ to display the Movie Options menu:**

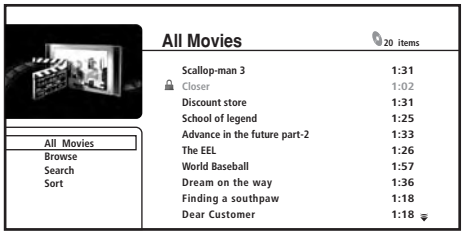


- **Play from Beginning**: Play the selected movie from the beginning.
- **Add to Quicklist**: Add the selected movie to your Quicklist. The Quicklist feature is a useful way to organize movie files for handy selection and playback. The Quicklist can contain up to 25 movies.[1]

Note
1 Quicklists are lost when you exit Movie Navigator.

Displaying the Browse menu

- **Press ⬅ to display the Browse menu:**

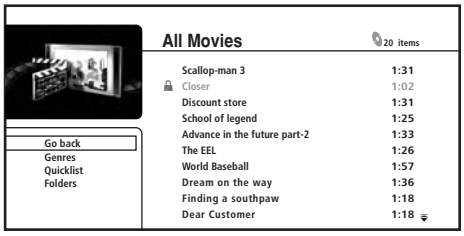


Depending on the browse menu, certain options may not be selectable.

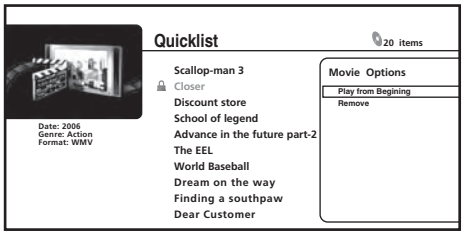
- **All Movies**: Display all movie files found on the disc.
- **Browse**: Browse movies by Genre, Quicklist, or Folders. See also *Browsing movies* below.
- **Search**: Find a movie by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also *Searching movies* below.
- **Sort**: Sort movies by date (oldest first or most recent first) or alphabetically by title or genre ('A' first or 'Z' first).

Browsing movies

The Browse sub-menu gives you three ways to browse movies.



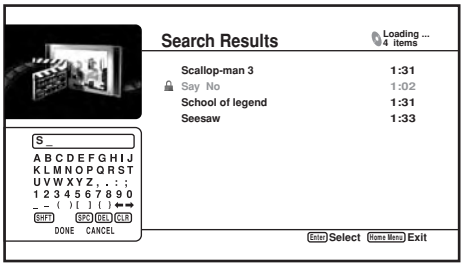
- **Go back**: Return to the previous menu.
- **Genres**: Display all movie genres and how many movies are in each one. Select a genre and press **ENTER** to see the list of movies in that genre.
- **Quicklist**: Display a list of all the movies currently in your Quicklist. Press ➡ to display the Movie Options menu, where you can start playback or remove movies from the Quicklist:



- **Folders**: Display a list of folders and movie files. Select a folder and press **ENTER** to see the list of subfolders/movies files in that folder. When you play a file in this mode, continuous play of files in that folder does not occur.

Searching movies

From the Search sub-menu you can enter a few (up to 20) characters of a movie title or genre. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of movies until you can see the one you're looking for.



- Use the ⬆/⬇/⬅/➡ and **ENTER** buttons to select characters from the keypad.
- Select **SHFT** to toggle between upper and lower case.
- Select **SPC** to insert a space.
- Select **DEL** to delete the character at the current cursor position in the search field.
- Select **CLR** to clear the search field.
- Select **DONE** to close the keypad and select movies or genres from the search results; select **CANCEL** to close the keypad and clear the search results.

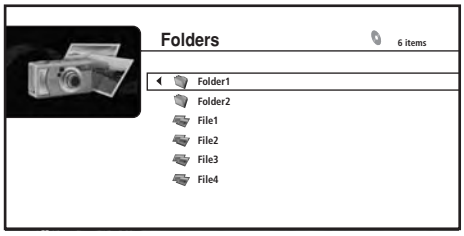
Photo Navigator

The photo section of the Disc Navigator allows you to browse and display all the compatible photo files found on the loaded BD-ROM or DVD-R/-RW disc (non-photo files are not displayed).

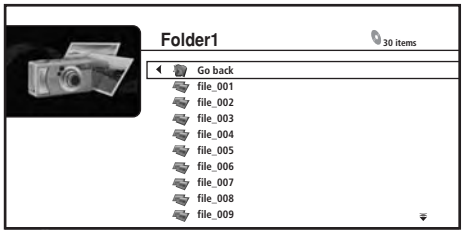
See also *File compatibility* on page 7 for more on compatible file types.

1 If you haven't already done so, select 'Disc Navigator' from the Home Menu, then 'Photos'.
You should see a list of folders/photo files from the disc.

2 Use the ⬆/⬇ buttons to change the current selection (highlighted in yellow).



3 Select a folder and press ENTER to see the list of photos and subfolders within the folder.

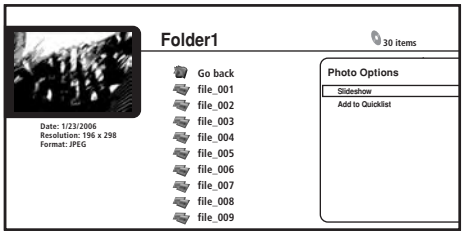


4 Use the ⬆/⬇ buttons to change the current selection (highlighted in yellow).

- Press **ENTER** to start full-screen slideshow playback from the currently selected photo.
- Press ▶ to start or resume slideshow playback from the last photo displayed.

Displaying the Photo Options menu

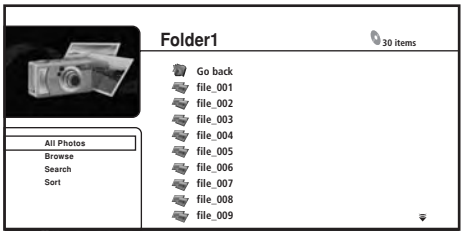
- **Press ➡ to display the Photo Options menu.**
  - Press **ENTER** to display the Photo Options menu when displaying photos in thumbnail view.



- **Slideshow**: Start full-screen slideshow playback from the currently selected photo. During the slideshow, press ⏭ to advance to the next photo; ⏮ to go back to the previous photo; ⏸ **PAUSE** to pause the slideshow; ■ **STOP** to stop and exit the slideshow; **ZOOM** to enlarge the picture on the screen.
- **Add to Quicklist**: Add the selected photo to your Quicklist. The Quicklist feature is a useful way to organize photos for handy selection and slideshow playback. The Quicklist can contain up to 25 photos.[1]

Displaying the Browse menu

- **Press ⬅ to display the browse menu.**
  - From the left-most column, press ⬅ to display the browse menu when displaying photos in thumbnail view:

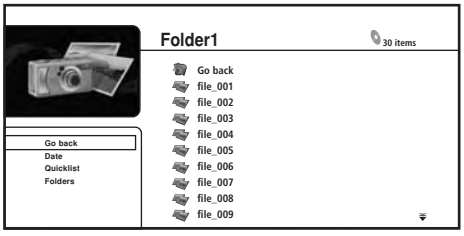


Depending on the browse menu, certain options may not be selectable.

- **All Photos**: Display all photos found on the disc as thumbnail files.
- **Browse**: Browse photos by Date, Quicklist or Folders. See also *Browsing photos* below.
- **Search**: Find a photo by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also *Searching photos* on page 28.
- **Sort**: Sort photos by date (oldest first or most recent first), or alphabetically by name ('A' first or 'Z' first).

Browsing photos

The Browse sub-menu gives you several ways to browse photos.

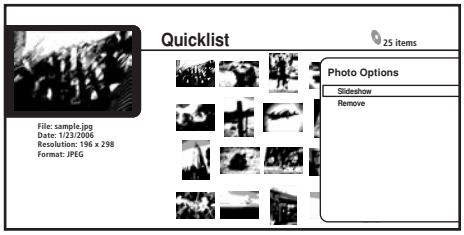


- **Go back**: Return to the previous menu.
- **Date**: Browse photos as thumbnails by date (year and month). Select a year then press **ENTER** to further browse by month. Select a month and press **ENTER** to see the photos taken that month.

Note

1 Quicklists are lost when you exit Photo Navigator.

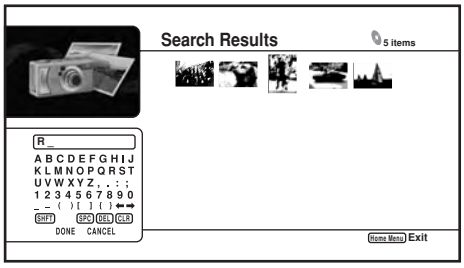
- **Quicklist**: Display thumbnails of all the photos currently in your Quicklist. Press **ENTER** to display the Photo Options menu, from where you can start slideshow playback or remove photos from the Quicklist:



- **Folders**: Display a list of folders and photo files on the disc. Select a folder and press **ENTER** to see the subfolders/photos. When you play a file in this mode, continuous play of files in that folder does not occur.

Searching photos

From the Search sub-menu you can enter a few (up to 20) characters of a photo title. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of photos until you can see the one you're looking for.



See *Searching movies* on page 26 for how to use the screen keypad.

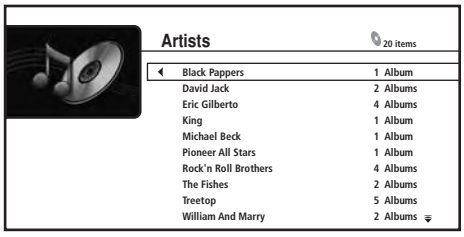
Music Navigator

The music section of the Disc Navigator allows you to browse and play all the compatible music files found on the loaded BD-ROM or DVD-R/-RW disc (non-music files are not displayed).

See also *File compatibility* on page 7 for more on compatible file types.

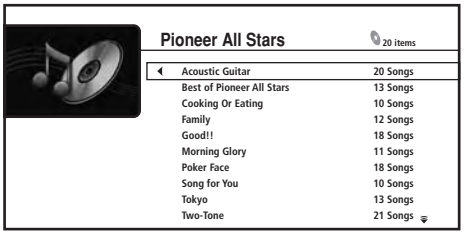
1 If you haven't already done so, select 'Disc Navigator' from the Home Menu, then 'Music'.

You should see a list of the artist names on the disc.



2 Use the ⬆/⬇ buttons to change the current selection (highlighted in yellow).

3 Press ENTER to display the Album list.



4 Select the Album you want to listen to and press ENTER to display the Song list.

- When the movie length cannot be determined, it is displayed as "-:--".

5 Use the ⬆/⬇ buttons to change the current selection (highlighted in yellow).

On the left side of the screen you can see file information, such as the artist and album name, genre and file format, for the current selection.

6 Press ENTER to play the currently highlighted music.

The display shows the **Now Playing** screen.

- Press ▶ to start or resume playback from the last track played on the **Now Playing** screen.

Displaying the Song Options menu

- **Press ➡ to display Song Options menu:**

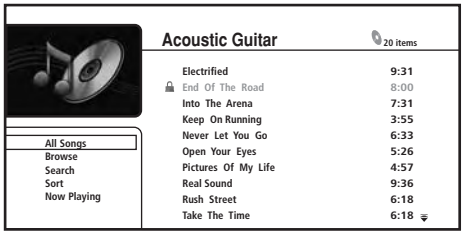
- **Play Song**: Play the selected song from the beginning.
- **Add to Quicklist**: Add the selected song to your Quicklist. The Quicklist feature is a useful way to organize music files for handy selection and playback. The Quicklist can contain up to 25 songs.[1]

Note

1 Quicklists are lost when you exit Music Navigator.

Displaying the Browse menu

- **Press ⬅ to display the Browse menu:**

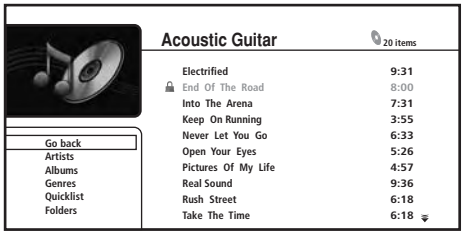


Depending on the browse menu, certain options may not be selectable.

- **All Songs**: Display all songs (files/tracks) found on the disc.
- **Browse**: Browse songs by Artist, Album, Genre, Quicklist or Folders. See also *Browsing songs* below.
- **Search**: Find a song by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also *Searching songs* below.
- **Sort**: Sort songs by date (oldest first or most recent first), or alphabetically by song title, artist, album or genre ('A' first or 'Z' first).
- **Now Playing**: Display song information (track name, artist, album, genre, etc.) and playback information. See also *Now playing song information* below.

Browsing songs

The Browse sub-menu gives you various ways to browse songs.

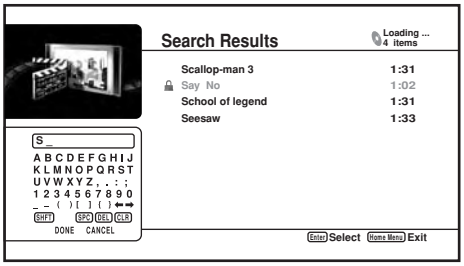


- **Go back**: Return to the previous menu.
- **Artists**: Display a list of artists, and how many albums are associated with each. Select an artist and press **ENTER** to see the album list by that artist.
- **Albums**: Display a list of albums, and how many songs are associated with each. Select an album and press **ENTER** to see the list of songs on that album.
- **Genres**: Display all music genres, and how many songs are in each one. Select a genre and press **ENTER** to see the list of artists in that genre.
- **Quicklist**: Display a list of all the songs currently in your Quicklist. Press ➡ to display the Song Options menu, where you can start playback or remove songs from the Quicklist:

- **Folders**: Display a list of folders and song files. Select a folder and press **ENTER** to see the list of subfolders/songs. When you play a file in this mode, continuous play of files in that folder does not occur.

Searching songs

From the Search sub-menu you can enter a few characters (up to 20) of a song title, genre, artist, or album. As each character is entered into the search field the search results are dynamically updated, narrowing down the list until you can see the one you're looking for.

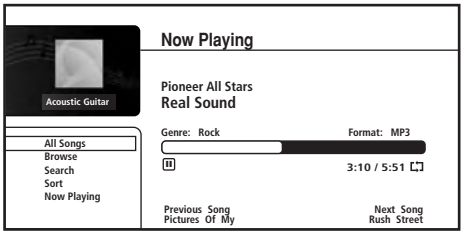


See *Searching movies* on page 26 for how to use the screen keypad.

Now playing song information

The Now Playing screen shows detailed information about the song playing, including:

- Artist and song title
- Progress bar (elapsed time and song length)
- Album name
- Genre
- File format
- Browse menu
- Play status
- Play mode
- Next/Previous song names



Chapter 6

Using the Home Media Gallery

Introduction

The Home Media Gallery allows you to browse and play movies, music and photos stored on media servers connected on an identical Local Area Network (LAN) as the player. This unit allows for the playing of files stored on the following:

- PCs running Microsoft Windows XP with Windows Media Connect installed
- PCs running Microsoft Windows Vista or XP with Windows Media Player 11 installed
- DLNA-compatible digital media servers (on PCs or other components)

About network playback

The network playback function of this unit uses the following technologies:

Windows Media Connect

See *About Windows Media Connect* on page 36 for details.

PlaysForSure

PlaysForSure is a marketing certification given by Microsoft. The PlaysForSure logo makes it easy to find digital media stores and devices that work together. Digital media purchased from online stores carrying the PlaysForSure logo is available for use on this unit.

This unit complies with PlaysForSure Requirements Specification for Network Devices Version 2.01.

The PlaysForSure logo, Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the USA and other countries.

Windows Media DRM

Microsoft Windows Media Digital Rights Management (WMDRM) is a platform to protect and securely deliver content for playback on computers, portable devices and network devices. Home Media Gallery functions as a WMDRM 10 for networked devices. WMDRM-protected content can only be played on media servers supporting WMDRM.

Content owners use WMDRM technology to protect their intellectual property, including copyrights. This device uses WMDRM software to access WMDRM-protected content. If the WMDRM software fails to protect the content, content owners may ask Microsoft to revoke the software's ability to use WMDRM to play or copy protected content. Revocation does not affect unprotected content. When you download licenses for protected content, you agree that Microsoft may include a revocation list with the licenses. Content owners may require you to upgrade WMDRM to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.

This product is protected by certain intellectual property rights of Microsoft. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft.

DLNA

DLNA CERTIFIED™ Audio/Video/Image Player

The Digital Living Network Alliance (DLNA) is a cross-industry organization of consumer electronics, computing industry and mobile device companies. Digital Living provides consumers with easy sharing of digital media through a wired or wireless network in the home.

The DLNA certification logo makes it easy to find products that comply with the DLNA Interoperability Guidelines. This unit complies with DLNA Interoperability Guidelines v1.0.

When a PC running DLNA server software or other DLNA-compatible device is connected to this player, some setting changes of software or other devices may be required. Please refer to the operating instructions for the software or device for more information.

DLNA and DLNA CERTIFIED™ are trademarks and/or service marks of Digital Living Network Alliance.

Content playable over a network

Even when encoded in a compatible format, some files may not play correctly. See *File compatibility* on page 7. Some functions may not be supported depending on the server type or version used.

Supported file formats vary by server. As such, files not supported by your server are not displayed on this unit.

For more information check with the manufacturer of your server.

About playback behavior over a network

- Playback may stall when the PC is switched off or any media files stored on it are deleted while playing content.
- If there are problems within the network environment (heavy network traffic, etc.) content may not be displayed or played properly (playback may be interrupted or stalled). For best performance, a 100BASE-TX connection between player and PC is recommended.
- Playback performance will vary with the power and condition (seek time of the hard disk, etc.) of the PC being used.
- If several clients are playing simultaneously, as the case may be, playback is interrupted or stalled.
- Depending on the security software installed on a connected PC and the setting of such software, network connection may be blocked.
- Problems with the PC may cause malfunctions.

Pioneer is not responsible for any malfunction of the player and/or the Home Media Gallery features due to communication error/malfunctions associated with your network connection and/or your PC, or other connected equipment. Please contact your PC manufacturer or Internet service provider.

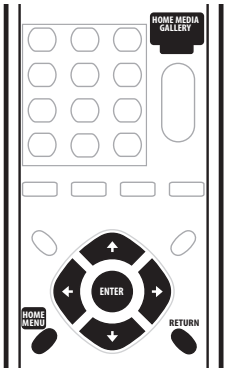
About the network settings

This unit uses DHCP and Auto IP functionality to make all the network settings automatically.

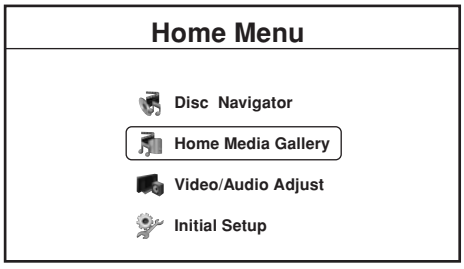
If you are using a broadband router or a broadband modem with a DHCP server function, setup should be completely automatic with no manual settings required.

Using the Home Media Gallery

Before using the Home Media Gallery, make sure that you have connected the player to the network and made the necessary settings. See *Network connection* on page 14 and *Setting up for network use* on page 19 for more information.

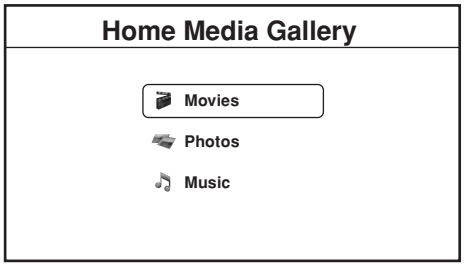


1 Press HOME MENU and select 'Home Media Gallery' from the on-screen display.



- Alternatively, press **HOME MEDIA GALLERY**.
- The Home Media Gallery is only available when the network or server contains movies, photos or music files.

2 Select 'Movies', 'Photos' or 'Music'.



- On selecting an option, a list of movies, photos or music files that the player finds on the selected server is displayed. From here you can browse, play and sort network files.
- See the sections below for more information on each part of the Home Media Gallery.

3 Press HOME MENU to exit the Home Media Gallery screen.

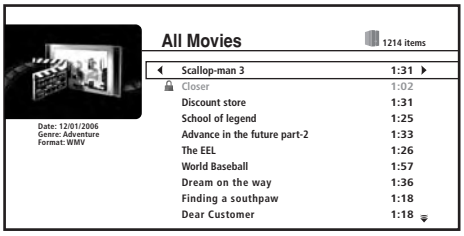
Movie Navigator

From the movie section of the Home Media Gallery you can browse and play all the compatible movie files found on your local area network (non-movie files are not displayed).

See also *File compatibility* on page 7 for more on compatible file types.

1 If you haven't already done so, select 'Home Media Gallery' from the Home Menu, then 'Movies'.

You should see a list of all the movie files found on the selected server, together with their playing times.



- When the movie length cannot be determined, it is displayed as "-:--".

2 Use the ⬆/⬇ buttons to change the current selection (highlighted in yellow).

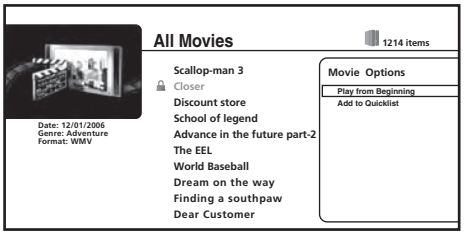
On the left side of the screen you can see file information, such as the genre, date and file format, for the current selection.

3 Press ENTER to play the currently highlighted movie.

Press ► to start or resume playback from the last title played.

Displaying the Movie Options menu

- **Press ➡ to display the Movie Options menu:**



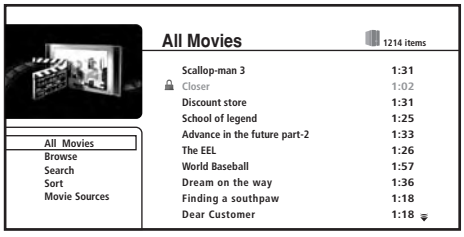
- **Play from Beginning**: Play the selected movie from the beginning.
- **Add to Quicklist**: Add the selected movie to your Quicklist. The Quicklist feature is a useful way to organize movie files for handy selection and playback. The Quicklist can contain up to 25 movies.[1]

Note

1 Quicklists are lost in the following instances:
- When you exit Movie Navigator.
- When you change the server to which you are connected.

Displaying the Browse menu

- **Press ⬅ to display the Browse menu:**

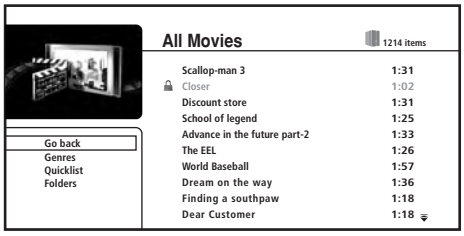


Depending on the browse menu, certain options may not be selectable.

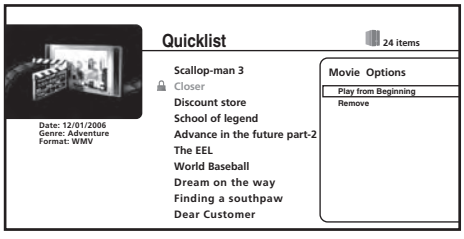
- **All Movies**: Display all movie files found on the selected server.
- **Browse**: Browse movies by Genre, Quicklist or Folders. See also *Browsing movies* below.
- **Search**: Find a movie by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also *Searching movies* below.
- **Sort**: Sort movies by date (oldest first or most recent first), or alphabetically by title or genre ('A' first or 'Z' first).
- **Movie Sources**: Display servers on the network. See also *Movie sources* below.

Browsing movies

The Browse sub-menu gives you three ways to browse movies.



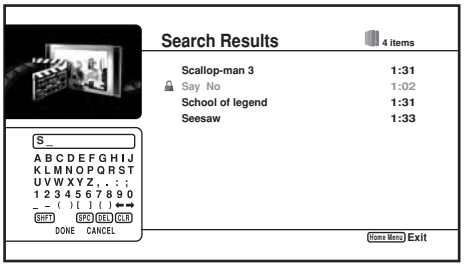
- **Go back**: Return to the previous menu.
- **Genres**: Display all movie genres and how many movies are in each one. Select a genre and press **ENTER** to see the list of movies in that genre.
- **Quicklist**: Display a list of all the movies currently in your Quicklist. Press ➡ to display the Movie Options menu, where you can start playback or remove movies from the Quicklist:



- **Folders**: Display a list of folders and movie files. Select a folder and press **ENTER** to see the list of movies and subfolders within the folder. (The folder configuration may change depending on the server type.) When you play a file in this mode, continuous play of files in that folder does not occur.

Searching movies

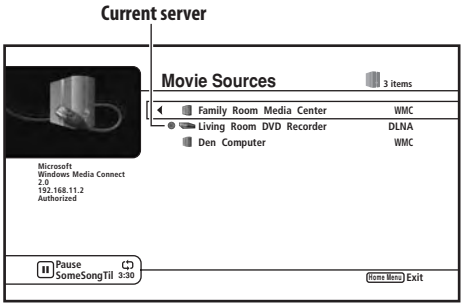
From the Search sub-menu you can enter a few (up to 20) characters of a movie title or genre. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of movies until you can see the one you're looking for.



- Use the ⬆/⬇/⬅/➡ and **ENTER** buttons to select characters from the keypad.
- Select **SHFT** to toggle between upper and lower case.
- Select **SPC** to insert a space.
- Select **DEL** to delete the character at the current cursor position in the search field.
- Select **CLR** to clear the search field.
- Select **DONE** to close the keypad and select a movie or genre from the search results; select **CANCEL** to close the keypad and clear the search results.

Movie sources

From the movie sources window you can see all the servers found on the network and change the selected server.



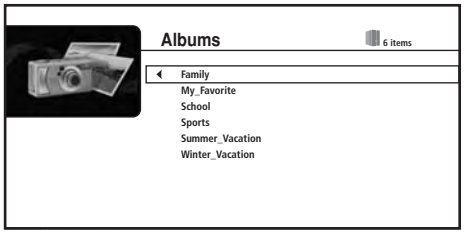
- Some servers found on the network may not be available for the following reasons:
  – The player is collecting file information from the server.
  – There are no playable movie files on the server.
  – This player is not authorized for the PC (Windows Media Connect only). See also *Authorizing this player* on page 36.
- Servers not currently available appear with a lock icon (🔒) in the server list.

Photo Navigator

The photo section of the Home Media Gallery allows you to browse and display all the compatible photo files found on your local area network (non-photo files are not displayed).

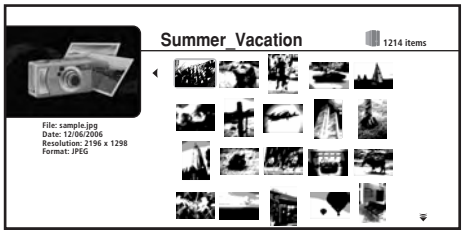
See also *File compatibility* on page 7 for more on compatible file types.

1 If you haven't already done so, select 'Home Media Gallery' from the Home Menu, then 'Photos'.
You should see a list of albums from the selected server.



2 Use the ⬆/⬇ buttons to change the current selection (highlighted in yellow).

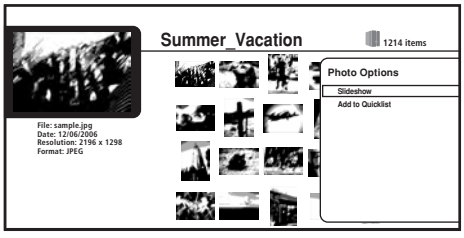
3 Press ENTER to display the selected photo list.



4 Use the ⬆/⬇/⬅/➡ buttons to change the current thumbnail selection (highlighted in yellow).
Press ► to start or resume slideshow playback from the last photo displayed.

Displaying the Photo Options menu

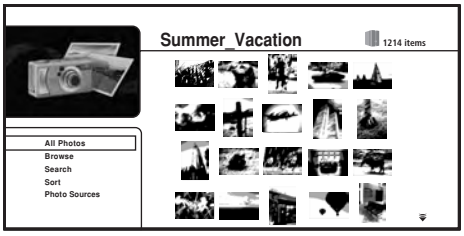
- **Press ENTER to display the Photo Options menu:**



- **Slideshow**: Starts full-screen slideshow playback from the currently selected photo. During the slideshow, press ⏭ to advance to the next photo; ⏮ to go back to the previous photo; ⏸ to pause the slideshow; ■ to stop and exit the slideshow; **ZOOM** to enlarge the picture on the screen.
- **Add to Quicklist**: Add the selected photo to your Quicklist. The Quicklist feature is a useful way to organize photos for handy selection and slideshow playback. The Quicklist can contain up to 25 photos.[1]

Displaying the Browse menu

- **From the left-most column, press ⬅ to display the Browse menu:**

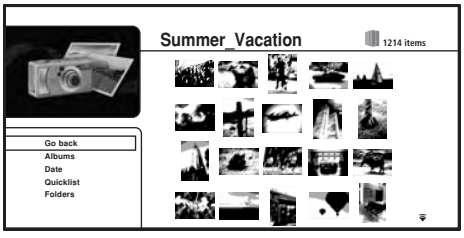


Depending on the browse menu, certain options may not be selectable.

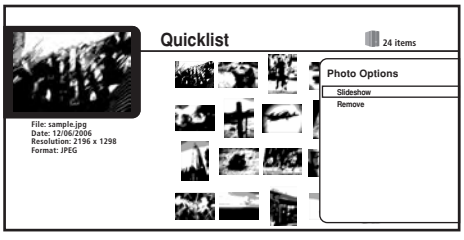
- **All Photos**: Display all photos found on the server.
- **Browse**: Browse photos by Album, Date, Quicklist or Folders. See also *Browsing photos* below.
- **Search**: Find a photo by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also *Searching photos* on page 34.
- **Sort**: Sort photos by date (oldest first or most recent first), or alphabetically by name ('A' first or 'Z' first).
- **Photo Sources**: Display servers on the network. See also *Photo sources* on page 34.

Browsing photos

The Browse sub-menu gives you several ways to browse photos.



- **Go back**: Return to the previous menu.
- **Albums**: Display a list of server albums.
- **Date**: Browse photos by date (year and month). Select a year then press **ENTER** to further browse by month. Select a month and press **ENTER** to see the photos taken that month.
- **Quicklist**: Display thumbnails of all the photos currently in your Quicklist. Press **ENTER** to display the Photo Options menu, where you can start slideshow playback or remove photos from the Quicklist:



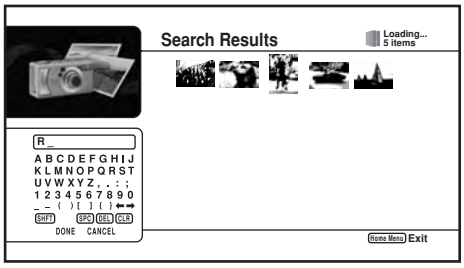
Note

1 Quicklists are lost in the following instances:
- When you exit Photo Navigator.
- When you change the server to which you are connected.

- **Folders**: Display a list of folders and photo files. Select a folder and press **ENTER** to see a list of photos and subfolders within the folder. (The folder configuration may change depending on the server type.) When you play a file in this mode, continuous play of files in that folder does not occur.

Searching photos

From the Search sub-menu you can enter a few (up to 20) characters of a photo title. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of photos until you can see the one you're looking for.



See *Searching movies* on page 32 for how to use the screen keypad.

Photo sources

From the photo sources window you can see all the servers found on the network and change the selected server. See *Movie sources* on page 32 for more information.

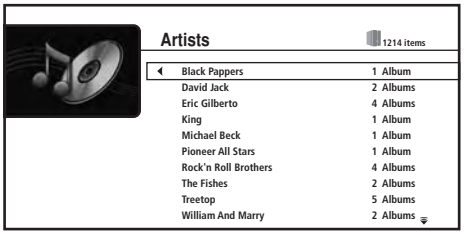
Music Navigator

From the music section of the Home Media Gallery you can browse and play all the compatible song files found on your local area network (non-music files are not displayed).

See also *File compatibility* on page 7 for more on compatible file types.

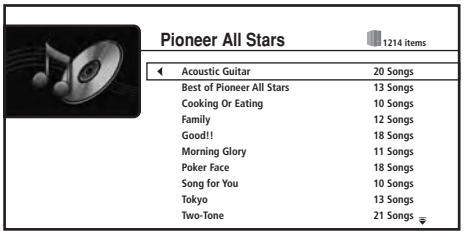
1 If you haven't already done so, select 'Home Media Gallery' from the Home Menu, then 'Music'.

You should see a list of all the artist names found on the selected server.



2 Use the ⬆/⬇ buttons to change the current selection (highlighted in yellow).

3 Press ENTER to display the Album list.



4 Select the Album you want to listen to and press ENTER to display the Song list.

- When the movie length cannot be determined, it is displayed as "-:--".

5 Use the ⬆/⬇ buttons to change the current selection (highlighted in yellow).

On the left side of the screen you can see file information, such as the artist and album name, genre and file format, for the current selection.

6 Press ENTER to play the currently highlighted music.

The display shows the **Now Playing** screen.

- Press ▶ to start or resume playback from the last track played on the **Now Playing** screen.

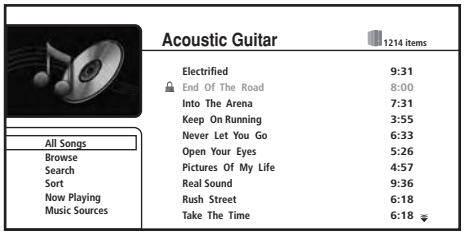
Displaying the Song Options menu

- **Press ➡ to display Song Options menu:**

- **Play Song**: Play the selected song from the beginning.
- **Add to Quicklist**: Add the selected song to your Quicklist. The Quicklist feature is a useful way to organize music files for handy selection and playback. The Quicklist can contain up to 25 songs.[1]

Displaying the Browse menu

- **Press ⬅ to display the Browse menu:**

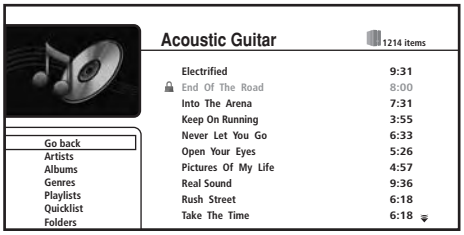


Depending on the browse menu, certain options may not be selectable.

- **All Songs**: Display all songs (files/tracks) found on the server.
- **Browse**: Browse songs by Artist, Album, Genre, Playlists, Quicklist or Folders. See also *Browsing songs* below.
- **Search**: Find a song by entering a name (or a few letters) to search for. The search results are narrowed down as you enter more letters. See also *Searching songs* below.
- **Sort**: Sort songs by date (oldest first or most recent first), or alphabetically by song title, artist, album or genre ('A' first or 'Z' first).
- **Now Playing**: Display song information (track name, artist, album, genre, etc.) and playback information. See also *Now playing song information* on page 36.
- **Music Sources**: Display servers on the network. See also *Music sources* on page 36.

Browsing songs

The Browse sub-menu gives you various ways to browse songs.

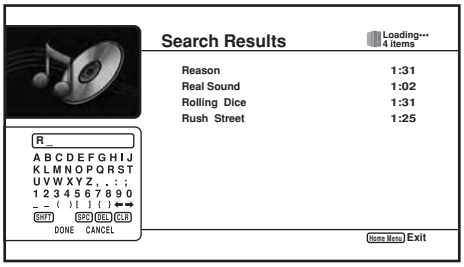


- **Go back**: Return to the previous menu.
- **Artists**: Display a list of artists, and how many albums are associated with each. Select an artist and press **ENTER** to see the album list by that artist.
- **Albums**: Display a list of albums, and how many songs are associated with each. Select an album and press **ENTER** to see the list of songs on that album.
- **Genres**: Display all music genres, and how many songs are in each one. Select a genre and press **ENTER** to see the list of artists in that genre.
- **Playlists**: Display the server Playlists.
- **Quicklist**: Display a list of all the songs currently in your Quicklist. Press ➡ to display the Song Options menu, where you can start playback or remove songs from the Quicklist:

- **Folders**: Display a list of folders and song files. Select a folder and press **ENTER** to see the list of songs and subfolders within the folder. (The folder configuration may change depending on the server type.) When you play a file in this mode, continuous play of files in that folder does not occur.

Searching songs

From the Search sub-menu you can enter a few characters (up to 20) of a song title, genre, artist or album. As each character is entered into the search field the search results are dynamically updated, narrowing down the list of songs until you can see the one you're looking for.



See *Searching movies* on page 32 for how to use the screen keypad.

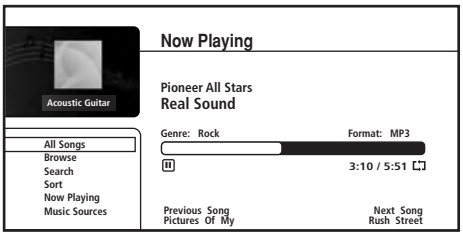
Note

1 Quicklists are lost in the following instances:
- When you exit Music Navigator.
- When you change the server to which you are connected.

Now playing song information

The Now Playing screen shows detailed information about the song playing, including:

- Artist and song title
- Progress bar (elapsed time and song length)
- Album name
- Genre
- File format
- Browse menu
- Play status
- Play mode
- Next/Previous song names



Music sources

From the music sources window you can see all the servers found on the network and change the selected server. See *Movie sources* on page 32 for more information.

About Windows Media Connect

Windows Media Connect is software to deliver music, photos and movies from a Microsoft Windows XP computer to home stereo systems and TVs.

With this software, you can play back files stored on the PC through various devices wherever you like in your home.

At this time you cannot download the Windows Media Connect software from Microsoft's website. If your server currently does not have Windows Media Connect installed, install Windows Media Player 11 (for Windows XP) instead. This software can be downloaded from Microsoft's website.

For more information check the official Microsoft website.

Authorizing this player

In order to be able to browse and play files from a Windows XP PC with Windows Media Connect this player must be authorized. This happens automatically when the player makes a connection over the network to the PC. If not, please authorize this player manually on the PC.

For more information on authorizing this player, refer to the instruction manual of your server.

FAQ

- *Some files don't show up. Where are they?*

  – File names that don't end with one of the permitted extensions won't be recognized by this player. See also *File compatibility* on page 7.

  – Supported file formats vary by server. As such, files not supported by your server are not displayed on this unit.

  For more information check with the manufacturer of your server.

Chapter 7
Video/Audio Adjust menu

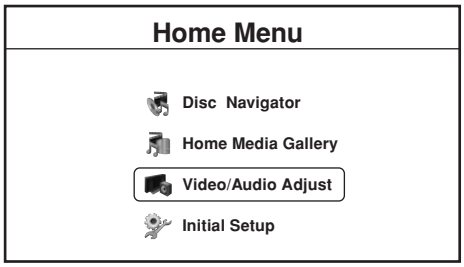
From the Video/Audio Adjust menu you can make various settings that affect how video is presented on your TV and how the sounds. Items in the Video/Audio Adjust menu can only be changed during playback.

Video Adjust

- Default setting: **Standard**

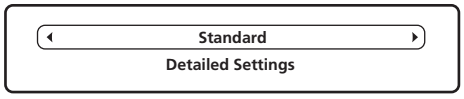
From the Video Adjust screen you can select the Standard or Cinema video presentation or define presets of your own in Memory 1 to 3.

1 Press HOME MENU and select 'Video/Audio Adjust' from the on-screen display.
You can press **VIDEO ADJUST** on the remote to display the Video Adjust screen.



2 Select 'Video Adjust'.

3 Use the ⬅/➡ buttons to select a preset.



- **Standard** – Standard setting
- **Cinema**[1] – Optimized for watching movies
- **Memory1/Memory2/Memory3** – Use for saving your own presets (see *Creating your own presets* below)

4 Press ENTER or RETURN to make the setting and exit the Video Adjust screen.

PureCinema

There are two types of video signals: Video material, with a frame rate of 25 or 30 frames/second; and film material, that has a frame rate of 24 frames/second.

In PureCinema mode film material is converted to 50 or 60 frames/second progressive for an exceptionally clear picture. Video output at 24 frames/second is converted to 60 frames/second.

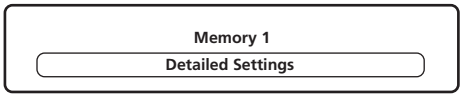
For film material or sources otherwise recorded with a frame rate of 24 frames/second, video is output in PureCinema mode even if you have *Video Adjust* set to **Standard**, **Cinema**, or **Memory 1**, **2** or **3**. Additionally, for PAL movie discs (25 frames/second BD-ROM or DVD discs) with film material or sources not correctly recorded at a frame rate of 24 frames/second, film materials are output in PureCinema even if you have the *Video Adjust* set to **Cinema**. If you notice problems with the images projected when set to **Cinema** (images appear to move, or zigzag), set the *Video Adjust* to **Standard** or **Memory 1**, **2** or **3**.

Creating your own presets

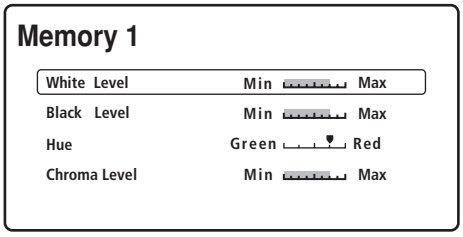
You can create up to three presets of your own.

1 Select one of the Memory presets.

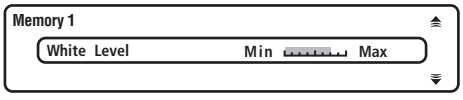
2 Press ⬇ to select 'Detailed Settings' then press ENTER.



3 Adjust the picture quality settings.
- Use the ⬆/⬇ buttons to select a setting.
- Use the ⬅/➡ buttons to adjust the current setting.



Select a setting then press **ENTER** to display just that setting. This gives you more screen area in which to see the effects of changes you make.



- Press **ENTER** or **RETURN** to go back to full-screen display.

You can adjust any or all of the following picture quality settings:

- **White Level**[1] – Adjusts the intensity of white.
- **Black Level**[1] – Adjusts the intensity of black.
- **Hue** – Adjusts the overall colour balance between red and green.
- **Chroma Level** – Adjusts how saturated colours appear.

4 Press RETURN to save the preset and exit the Detailed Settings screen.

Note

1 Effective only for video output from **HDMI OUT** or **COMPONENT VIDEO OUT** connections (settings do no affect video output from **VIDEO OUT** or **S-VIDEO OUT**).

Audio Adjust

From the Audio Adjust menu you can set the Audio DRC (Dynamic Range control).

Audio DRC

- Default setting: **Off**

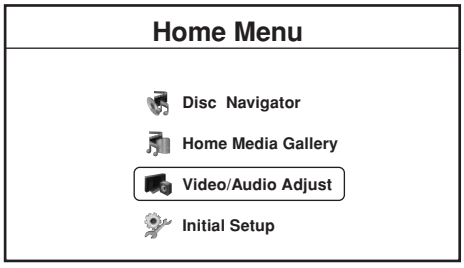
When watching Dolby Digital BD and DVD discs, as well as PC files with Dolby Digital audio, at low volume, it's easy to lose the quieter sounds completely — including some of the dialog. Switching Audio DRC to On can help by bringing up the quieter sounds, while controlling loud peaks.

How much of a difference you hear depends on the material you're listening to. If the material doesn't have wide variations in volume, you may not notice much change.

Important

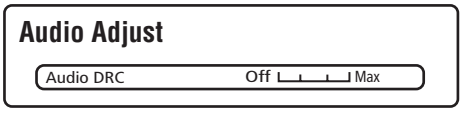
- Audio DRC is effective with the following types of audio:
  – Analog audio from the **AUDIO OUT (2ch)** and **AUDIO OUT (5.1ch)** jacks.
  – PCM audio from the **DIGITAL AUDIO OUT** and **HDMI OUT** jacks (see also *About the audio output settings* on page 42).

1 Press HOME MENU and select 'Video/Audio Adjust' from the on-screen display.



2 Select 'Audio Adjust'.

3 Highlight Audio DRC, then use the ⬅/➡ buttons to change to 'Off', 'Level 1', 'Level 2' or 'Max' as required.



4 Press ENTER or RETURN to make the setting and exit the Audio Adjust screen.

Chapter 8
Initial Setup menu

Using the Initial Setup menu

The Initial Setup menu is where you can set various player options for sound, picture, language and so on. Note that settings can only be changed when the player is stopped.

If you disconnect the player from the wall outlet before switching the player off, any new settings made during that session will be lost.

- **Press HOME MENU and select 'Initial Setup'.**

In the table below, the default option is marked with a •.

Setting	Options	Explanation
Video Out		
TV Aspect Ratio	**4:3 (Standard)**	Select if you have a standard 4:3 TV. See *Changing the output video resolution* on page 12. When the *Output Video Resolution* is set to **720p**, **1080i** or **1080p**, video is output in 16:9 widescreen format even if *TV Aspect Ratio* is set to **4:3 (Standard)**. When connected to a 4:3 TV, set the Output Video Resolution to 576i/480i or 576p/480p. See also *Changing the output video resolution* on page 12.
	16:9 (Widescreen) •	Select if you have a widescreen 16:9 TV.
4:3 Video Out	**Full**	4:3 video material is output without black bars on either side of the picture if the *TV Aspect Ratio* setting (above) is set to **16:9 (Widescreen)**.
	Normal •	4:3 video material is output with black bars on either side of the picture if the *TV Aspect Ratio* setting (above) is set to **16:9 (Widescreen)**.
DVD 16:9 Video Out	**Letter Box** •	If the *TV Aspect Ratio* setting (above) is set to **4:3 (Standard)**, select this if you prefer letterbox presentation of 16:9 format DVDs.
	Pan & Scan	If the *TV Aspect Ratio* setting (above) is set to **4:3 (Standard)**, select this if you prefer Pan & Scan presentation of 16:9 format DVDs.
Some discs contain only Letter Box or Pan & Scan presentation so the video output will depend on the disc.		
HDMI Color Space	**YCbCr** •	This is the standard setting for HDMI-compatible devices.
	RGB (16–235)	Use this setting if colours appear overly rich and the black too deep on the **RGB (0–255)** setting.
	RGB (0–255)	Use if colours are weak and black appears to 'float' on the **RGB (16–235)** setting.
When using an HDMI monitor that accepts only RGB input, this player outputs RGB video even if this setting is set to **YCbCr**. *If the monitor is DVI-compatible, the player outputs* **RGB (0–255)** *colour space. If however the picture looks unnatural, set it to* **RGB (16–235)**.		
24p Direct Out	**On**	Gives smooth movement in BD/DVD film material video. This setting is only effective when the player is connected to a 1080/24p-compatible TV using HDMI.
	Off •	Choose this setting if you notice picture disturbance when the video switches between video and film material.
When 24p Direct Out is **On**, *you may experience some picture disturbance when the video switches between video and film material. See also Changing the output video resolution on page 12.*		

Setting	Options	Explanation
Audio Out		
Dolby Digital Out	**Dolby Digital •**	Outputs a Dolby Digital signal when a Dolby Digital source is being played.
	Dolby Digital → PCM	Converts Dolby Digital sources to Linear PCM output. Use if your connected equipment doesn't support Dolby Digital audio.
This setting is effective in digital audio outputs.		
DTS Out	**DTS •**	Outputs a DTS signal when a DTS source is being played.
	DTS → PCM	Converts sources with DTS audio to Linear PCM output. Use if your connected equipment doesn't support DTS audio.
This setting is effective in digital audio outputs.		
DTS Downmix	**Stereo •**	If you've selected **DTS → PCM** in *DTS Out* above, you can choose the way the DTS signal is down-mixed PCM audio. **Stereo** downmixes the signal to 2-channel stereo.
	Lt/Rt	Downmixes to a 2-channel signal compatible with Dolby surround matrix decoders. (This allows you to hear surround sound if your AV receiver or amplifier has Dolby Pro Logic capability.)
HDMI Audio Out	**Auto •**	Dolby Digital and DTS sources are output as a bitstream signal. However, depending on the HDMI device connected and the content being played, Linear PCM audio may be output.
	PCM	All audio signals are converted to Linear PCM.
Language		
OSD Language	**English •**	Sets the language of the on-screen displays to English.
	available languages	Choose from the languages displayed for the on-screen displays.
Audio Language	**English •**	Sets both the BD-ROM and DVD-Video default audio language to English.
	available languages	Choose from the languages displayed to set the default audio language for BD-ROM and DVD-Video playback.
	Other	Continue to the next screen to set the default audio language for BD-ROM and DVD-Video disc playback. You can select the language name or enter the code number (see on page 47 for the code list).
Discs do not necessarily have audio in your selected language. Also, some discs override the Audio Language preference.		
Subtitle Language	**English •**	Sets the default subtitle language for BD-ROM and DVD-Video playback to English.
	available languages	Choose from the languages displayed to set the default subtitle language for BD-ROM and DVD-Video playback.
	Other	Continue to the next screen to set the default subtitle language for BD-ROM and DVD-Video disc playback. You can select the language name or enter the code number (see on page 47 for the code list).
Discs do not necessarily have subtitles in your selected language. Also, some discs override the Subtitle Language preference.		
BD/DVD Menu Language	**w/Subtitle Language •**	Sets the language of BD-ROM and DVD-Video menus to the same as that set for the subtitle language.
	available languages	Choose from the displayed languages to set the default language for BD-ROM and DVD-Video menus.
	Other	Continue to the next screen to set the default menu language for BD-ROM and DVD-Video disc menus. You can select the language name or enter the code number (see on page 47 for the code list).
Discs do not necessarily have menus in your selected menu language.		
Subtitle Display	**On •**	Select to have BD-ROM and DVD-Video discs display subtitles.
	Off	Select to switch off subtitle display.
Some discs may override these settings.		
Parental Lock		
Change Password (Set Password)	**Next Screen**	Set or change the password necessary to play BD or DVD discs that have level/age restrictions. In order to change the password, you'll need to first enter your existing one.
DVD Parental Lock	**Change Level**	Enter your password and then set the parental lock level. Discs with a lock level higher than that set in the player will require the password to play.
	DVD Country Code	Enter your password and then set a country/area code. This ensures that you see the scenes intended for your country or area. See *BD/DVD country/area code list* on page 47.
BD Parental Lock	**Change Age Restriction**	Enter your password and then set the age restriction. "255" indicates no parental control.
Only certain discs have parental lock features. Check the disc packaging to see what features the disc has. If you forget your password you can reset it by resetting the player to its factory settings. See BD/DVD language code list on page 47.		

Setting	Options	Explanation
Network		
IP Configuration	**Next Screen**	Continue to the next screen to input IP address details. See *Setting up for network use* on page 19 for more detailed information.
Device Name	**Next Screen**	Continue to the next screen to set the name of this player as it will appear to other devices on the network. See *Setting up for network use* on page 19 for more detailed information.
Display Network Config.	**Next Screen**	Continue to the next screen to see a summary of your network settings.
Speakers		
Audio Output Mode	**2 Channel** •	Set if you connected this player to an amplifier using only the front left/right channels of the **AUDIO OUT (5.1ch)** outputs.
	5.1 Channel	Set if you connected this player to an amplifier using all 5.1 channels of the **AUDIO OUT (5.1ch)** outputs. On this setting the audio output from the **AUDIO OUT (2ch)** jacks will be incorrect.
Speaker Setup	**Next Screen**	Continue to the next screen to specify which speakers are connected to your system. This setting affects how audio is output from the multi-channel analog outputs. See *Speaker Setup* on page 43 for more detailed information.
Options		
On Screen Display	**On** •	The player displays operation displays (**Stop**, **Play**, etc.) on-screen.
	Off	Switches off the on-screen operation displays.
BD Country Code	**Next Screen**	Enter your password and then set a country/area code. This ensures that you see the scenes intended for your country or area. See *BD/DVD country/area code list* on page 47.
Auto Power Off	**On** •	If the player is stopped or paused for more than 30 minutes with no operation by the user, the player automatically switches itself off.
	Off	No automatic power off.
Setup Navigator	**Start**	Select to start the Setup Navigator. See also *Switching on and setting up* on page 18.
HDMI Control	**On** •	Select when using the HDMI Control function. See *HDMI Control* on page 5.
	Off	Select when not using the HDMI Control function. See *HDMI Control* on page 5.
Set hybrid disc playback layer	**BD** •	Playback the BD portion.
	DVD	Playback the DVD portion. When no DVD portion is present, the BD portion is played back.
	CD	Playback the CD portion. When no CD portion is present, the BD portion is played back.

This setting cannot be changed when a disc is inserted in the disc tray.

About the audio output settings

The table below shows how the audio settings you make in the Initial Setup menu (page 39) affect the output to the analog (2ch/5.1ch), digital and HDMI outputs with various types of disc/files.

Disc audio format		Analog outputs		Digital outputs		HDMI output	
		2ch*1	5.1ch*1	PCM convert*2	Bitstream*3	PCM*4	Auto*4
BD-ROM	Dolby Digital	2ch downmix PCM	5.1ch PCM	2ch downmix PCM	Dolby Digital*11	5.1ch PCM*9	Dolby Digital*8, 11
	Dolby Digital plus	2ch downmix PCM	5.1ch PCM	2ch downmix PCM	Dolby Digital*5, 11	7.1ch PCM*9	Dolby Digital*5, 8, 11
	Dolby TrueHD*14	2ch downmix PCM	5.1ch PCM	2ch downmix PCM	Dolby Digital*6, 11	5.1ch PCM*9	Dolby Digital*6, 8, 11
	DTS	2ch downmix PCM	5.1ch PCM	2ch downmix PCM	DTS*11	5.1ch PCM*9	DTS*8, 11
	DTS-HD*15	2ch downmix PCM	5.1ch PCM	2ch downmix PCM	DTS*7, 11	5.1ch PCM*9	DTS*7, 8, 11
	Linear PCM 7.1ch	2ch downmix PCM	5.1ch downmix PCM	2ch downmix PCM	2ch downmix PCM	7.1ch PCM*9, 12,13	7.1ch PCM*9, 12,13
	Linear PCM 5.1ch	2ch downmix PCM	5.1ch PCM*10	2ch downmix PCM	2ch downmix PCM	5.1ch PCM*9, 10,12	5.1ch PCM*9, 10,12
	Linear PCM 2ch	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM*12	2ch PCM*12
DVD-Video	Dolby Digital	2ch downmix PCM	5.1ch PCM	2ch downmix PCM	Dolby Digital	5.1ch PCM*9	Dolby Digital*8
	DTS	2ch downmix PCM	5.1ch PCM	2ch downmix PCM	DTS	5.1ch PCM*9	DTS*8
	MPEG	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM
	Linear PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM	2ch PCM

*1 *2 Channel or 5.1 Channel setting (see Audio Output Mode on page 41).*

*2 *Dolby Digital→PCM or DTS→PCM setting (see Dolby Digital Out and DTS Out on page 40).*

*3 *Dolby Digital or DTS setting (see Dolby Digital Out and DTS Out on page 40).*

*4 *PCM or Auto setting (see HDMI Audio Out on page 40).*

*5 *Only the independent substream is output.*

*6 *Only the Dolby substream is output.*

*7 *Only the core substream is output.*

*8 *If the HDMI device you are using is not compatible with these compressed formats, the signal is output as linear PCM.*

*9 *If the connected HDMI device is compatible with fewer channels of Linear PCM audio than this player, the output will be adjusted to be compatible with the HDMI device.*

*10 *Outputs 2ch downmix PCM when the sampling rate is 192 kHz.*

*11 *Even if there is interactive audio, interactive audio is not mixed.*

*12 *Interactive audio is not mixed when the sampling rate is 192 kHz or 96 kHz.*

*13 *When the video output of HDMI is 576i/480i or 576p/480p, output sampling rate is automatically downsampled to 48 kHz.*

*14 *Dolby Digital sound is output.*

*15 *DTS sound is output.*

Note

- Output sampling rate is 48 kHz through the digital audio outputs.
- MPEG audio is always output as linear PCM.

Speaker Setup

You only need to make this setting if you connected this player to your amplifier using the 5.1 channel analog outputs.

This setting does not affect any digital audio output.

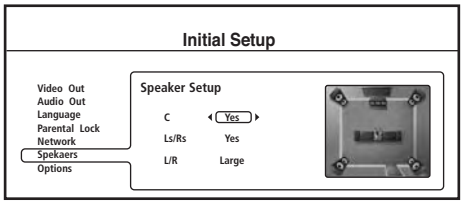
Use the Speaker Setup screen to tell the player what kinds of speakers you have connected.

1 Press HOME MENU and select 'Initial Setup'.

2 Select 'Speakers'.

3 Select 'Speaker Setup', then 'Next Screen'.

4 Use the ⬆/⬇ buttons to select a speaker.



5 Use the ⬅/➡ buttons to change the speaker setup.
Specify which speakers you have in your setup:

- **C** (Center): **Yes** or **No**
- **Ls/Rs** (Surround): **Yes** or **No**
- **L/R** (Main): **Small** or **Large**
  (This setting is only applicable if the **C** and **Ls**/**Rs** speakers are present.)

6 Press ENTER to save the settings and exit the Speaker Setup screen.

Chapter 9
Additional information

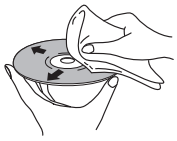
Taking care of your player and discs

Handling discs

When holding discs of any type, take care not to leave fingerprints, dirt or scratches on the disc surface. Hold the disc by its edge or by the center hole and edge.

Damaged or dirty discs can affect playback performance. Take care also not to scratch the label side of the disc. Although not as fragile as the recorded side, scratches can still result in a disc becoming unusable.

Should a disc become marked with fingerprints, dust, etc., clean using a soft, dry cloth, wiping the disc lightly from the center to the outside edge as shown in the diagram below.



Wipe lightly from the center of the disc using straight strokes.

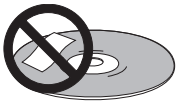
Don't wipe the disc surface using circular strokes.

If necessary, use a cloth soaked in alcohol, or a commercially available DVD/BD cleaning kit to clean a disc more thoroughly. Never use benzine, thinner or other cleaning agents, including products designed for cleaning vinyl records.

Storing discs

Although BD and DVD discs are more durable than vinyl records, you should still take care to handle and store discs correctly. When you're not using a disc, return it to its case and store upright. Avoid leaving discs in excessively cold, humid, or hot environments (including under direct sunlight).

Don't glue paper or put stickers onto the disc, or use a pencil, ball-point pen or other sharp-tipped writing instrument. These could all damage the disc.

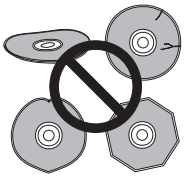


For more detailed care information see the instructions that come with discs.

Do not load more than one disc into the player at a time.

Damaged and odd-shaped discs

Discs spin at high speed inside the player. If you can see that a disc is cracked, chipped, warped, or otherwise damaged, don't risk using it in your player — you could end up damaging it.



This player is designed for use with conventional, fully circular discs only. Use of shaped discs is not recommended for this product. Pioneer disclaims all liability arising in connection with the use of shaped discs.

Do not use any kind of adapter when playing 8 cm DVD discs. This size disc can be played in this player without an adapter; just use the smaller disc guide in the disc tray.

Cleaning the pickup lens

The player's lens should not become dirty in normal use, but if for some reason it should malfunction due to dust or dirt, consult your nearest Pioneer-authorized service center. Although lens cleaners for DVD players are commercially available, we advise against using them since some may damage the lens.

Problems with condensation

Condensation may form inside the player if it is brought into a warm room from outside, or if the temperature of the room rises quickly. Although the condensation won't damage the player, it may temporarily impair its performance. For this reason you should leave it to adjust to the warmer temperature for about an hour before switching on and using.

Hints on installation

We want you to enjoy using this product for years to come, so please bear in mind the following points when choosing a suitable location for it:

Do...

- Use in a well-ventilated room.
- Place on a solid, flat, level surface, such as a table, shelf or stereo rack.

Don't...

- Use in a place exposed to high temperatures or humidity, including near radiators and other heat-generating appliances.
- Place on a window sill or other place where the player will be exposed to direct sunlight.
- Use in an excessively dusty or damp environment.
- Place directly on top of an amplifier, or other component in your stereo system that becomes hot in use.
- Place the player on top of or immediately next to the television or monitor as you may experience interference.
- Use in a kitchen or other room where the player may be exposed to smoke or steam.
- Use on a thick rug or carpet, or cover with cloth — this may prevent proper cooling of the unit.
- Place on an unstable surface, or one that is not large enough to support all four of the unit's feet.

Moving the player

If you need to move this unit, first remove the disc, if there's one loaded, and close the disc tray. Next, press ⏻ **STANDBY/ON** to switch the power to standby, checking that the power off indication in the display goes off. Wait at least 10 seconds. Lastly, disconnect the power cord.

Never lift or move the unit during playback — discs rotate at a high speed and may be damaged.

Screen sizes and disc formats

BD-ROM and DVD-Video discs come in several different screen aspect ratios, ranging from TV programmes, which are generally 4:3, to CinemaScope widescreen movies, with an aspect ratio of up to about 7:3.

Televisions, too, come in different aspect ratios; 'standard' 4:3 and 'widescreen' 16:9.

Widescreen TV users

If you have a widescreen TV, the *TV Aspect Ratio* setting (page 39) of this player should be set to **16:9 (Widescreen)**.

When you watch discs recorded in 4:3 format, you can use the TV controls to select how the picture is presented. Your TV may offer various zoom and stretch options; see the instructions that came with your TV for details.

Please note that some movie aspect ratios are wider than 16:9, so even though you have a widescreen TV, these discs will still play in a 'letter box' style with black bars at the top and bottom of the screen.

Standard TV users

If you have a standard TV, the *TV Aspect Ratio* setting (page 39) of this player should be set to **4:3 (Standard)**.

Resetting the player

Use this procedure to reset all the player's settings to the factory default.

1 Make sure that the player is off.

2 Press ⏻ STANDBY/ON and wait until 'NO DISC,' 'BD-ROM,' or 'DVD' displays on the front panel.

It can take up to one minute for the system to start once you press ⏻ **STANDBY/ON**.

3 Press and hold ■ STOP and press ⏻ STANDBY/ON.

- The player turns off with all settings reset.

Setting up the remote to control your TV

1 Input the manufacturer code.

While holding down the **TV CONTROL** ⏻ button, input the two digit code from the table below that corresponds to the make of your TV.

For example, if you have a Pioneer TV, press and hold **TV CONTROL** ⏻, then press **0**, **0** on the remote control.

2 Confirm that the TV is responding to the programmed code.

On the remote, press the **TV CONTROL** ⏻ button. If the TV switches on (or into standby if it was on previously), then you have the correct code.

If nothing happens when you press the **TV CONTROL** ⏻ button, start again from step 1 using a different code. Some manufacturers have several codes. Try each one until you find the one that works.

TV Preset code list

Please note that there are cases where only certain functions may be controllable after assigning the proper preset code, or the codes for the manufacturer in the list will not work for the model that you are using.

Manufacturer Code(s)	**Manufacturer** Code(s)	**Manufacturer** Code(s)	**Manufacturer** Code(s)
ACURA 44	**FRONTECH** 31, 42, 46	**MAGNAVOX** 07, 10, 03, 12, 29	**SALORA** 31, 32, 42, 43
ADMIRAL 31	**FRONTECH/PROTECH** 32	**MANESTH** 39, 46	**SAMBERS** 49
AIWA 60	**FUJITSU** 48	**MARANTZ** 07	**SAMSUNG** 07, 38, 44, 46, 69, 70
AKAI 32, 35, 42	**FUNAI** 40, 46, 58	**MARK** 07	**SANYO** 35, 45, 48, 21, 14, 91
AKURA 41	**GBC** 32, 42	**MATSUI** 07, 39, 40, 42, 44, 47, 48	**SBR** 07, 34
ALBA 07, 39, 41, 44	**GE** 00, 01, 08, 07, 10, 11, 17, 02, 28, 18	**MCMICHAEL** 34	**SCHAUB LORENZ** 42
AMSTRAD 42, 44, 47	**GEC** 07, 34, 48	**MEDIATOR** 07	**SCHNEIDER** 07, 41, 47
ANITECH 44	**GELOSO** 32, 44	**MEMOREX** 44	**SEG** 42, 46
ASA 45	**GENERAL** 29	**METZ** 31	**SEI** 32, 40, 49
ASUKA 41	**GENEXXA** 31, 41	**MINERVA** 31, 53	**SELECO** 31, 42
AUDIOGONIC 07, 36	**GOLDSTAR** 10, 23, 21, 02, 07, 50	**MITSUBISHI** 09, 10, 02, 21, 31	**SHARP** 02, 19, 27, 67, 90
BASIC LINE 41, 44	**GOODMANS** 07, 39, 47, 48, 56	**MULTITECH** 44, 49	**SIAREM** 32, 49
BAUR 31, 07, 42	**GORENJE** 38	**NEC** 59	**SIEMENS** 31
BEKO 38	**GPM** 41	**NECKERMANN** 31, 07	**SINUDYNE** 32, 39, 40, 49
BEON 07	**GRAETZ** 31, 42	**NEI** 07, 42	**SKANTIC** 43
BLAUPUNKT 31	**GRANADA** 07, 35, 42, 43, 48	**NIKKAI** 05, 07, 41, 46, 48	**SOLAVOX** 31
BLUE SKY 41	**GRADIENTE** 30, 57	**NOBLIKO** 49	**SONOKO** 07, 44
BLUE STAR 18	**GRANDIN** 18	**NOKIA** 32, 42, 52	**SONOLOR** 31, 35
BPL 18	**GRUNDIG** 31, 53	**NORDMENDE** 32, 36, 51, 52	**SONTEC** 07
BRANDT 36	**HANSEATIC** 07, 42	**OCEANIC** 31, 32, 42	**SONY** 04
BTC 41	**HCM** 18, 44	**ORION** 32, 07, 39, 40	**SOUNDWAVE** 07
BUSH 07, 41, 42, 44, 47, 56	**HINARI** 07, 41, 44	**OSAKI** 41, 46, 48	**STANDARD** 41, 44
CASCADE 44	**HISAWA** 18	**OSO** 41	**STERN** 31
CATHAY 07	**HITACHI** 31, 33, 34, 36, 42, 43, 54, 06, 10, 24, 25, 18	**OSUME** 48	**SUSUMU** 41
CENTURION 07	**HUANYU** 56	**OTTO VERSAND** 31, 32, 07, 42	**SYSLINE** 07
CGB 42	**HYPSON** 07, 18, 46	**PALLADIUM** 38	**TANDY** 31, 41, 48
CIMLINE 44	**ICE** 46, 47	**PANAMA** 46	**TASHIKO** 34
CLARIVOX 07	**IMPERIAL** 38, 42	**PANASONIC** 31, 07, 08, 42, 22	**TATUNG** 07, 48
CLATRONIC 38	**INDIANA** 07	**PATHO CINEMA** 42	**TEC** 42
CONDOR 38	**INGELEN** 31	**PAUSA** 44	**TELEAVIA** 36
CONTEC 44	**INTERFUNK** 31, 32, 07, 42	**PHILCO** 32, 42	**TELEFUNKEN** 36, 37, 52
CROSLEY 32	**INTERVISION** 46, 49	**PHILIPS** 31, 07, 34, 56, 68	**TELETECH** 44
CROWN 38, 44	**ISUKAI** 41	**PHOENIX** 32	**TENSAI** 40, 41
CRYSTAL 42	**ITC** 42	**PHONOLA** 07	**THOMSON** 36, 51, 52, 63
CYBERTRON 41	**ITT** 31, 32, 42	**PROFEX** 42, 44	**THORN** 31, 07, 42, 45, 48
DAEWOO 07, 44, 56	**JEC** 05	**PROTECH** 07, 42, 44, 46, 49	**TOMASHI** 18
DAINICHI 41	**JVC** 13, 23	**QUELLE** 31, 32, 07, 42, 45, 53	**TOSHIBA** 05, 02, 26, 21, 53
DANSAI 07	**KAISUI** 18, 41, 44	**R-LINE** 07	**TOWADA** 42
DAYTON 44	**KAPSCH** 31	**RADIOLA** 07	**ULTRAVOX** 32, 42, 49
DECCA 07, 48	**KENDO** 42	**RADIOSHACK** 10, 23, 21, 02	**UNIDEN** 92
DIXI 07, 44	**KENNEDY** 32, 42	**RBM** 53	**UNIVERSUM** 31, 07, 38, 42, 45, 46, 54
DUMONT 53	**KORPEL** 07	**RCA** 01, 10, 15, 16, 17, 18, 61, 62, 09	**VESTEL** 07
ELIN 07	**KOYODA** 44	**REDIFFUSION** 32, 42	**VICTOR** 13
ELITE 41	**LEYCO** 07, 40, 46, 48	**REX** 31, 46	**VOXSON** 31
ELTA 44	**LIESENK&TTER** 07	**ROADSTAR** 41, 44, 46	**WALTHAM** 43
EMERSON 42	**LOEWE** 07	**SABA** 31, 36, 42, 51	**WATSON** 07
ERRES 07	**LUXOR** 32, 42, 43	**SAISHO** 39, 44, 46	**WATT RADIO** 32, 42, 49
FERGUSON 07, 36, 51	**M-ELECTRONIC** 31, 44, 45, 54, 56, 07, 36, 51		**WHITE WESTINGHOUSE** 07
FINLANDIA 35, 43, 54	**MAGNADYNE** 32, 49		**YOKO** 07, 42, 46
FINLUX 32, 07, 45, 48, 53, 54	**MAGNAFON** 49		**ZENITH** 03, 20
FIRSTLINE 40, 44			**PIONEER** 00, 31, 32, 07, 36, 42, 51
FISHER 32, 35, 38, 45			
FORMENTI 32, 07, 42			

BD/DVD language code list

Language (Language code letter), **Language code**

Japanese (ja), **1001**
English (en), **0514**
French (fr), **0618**
German (de), **0405**
Italian (it), **0920**
Spanish (es), **0519**
Dutch (nl), **1412**
Russian (ru), **1821**
Chinese (zh), **2608**
Korean (ko), **1115**
Greek (el), **0512**
Afar (aa), **0101**
Abkhazian (ab), **0102**
Afrikaans (af), **0106**
Amharic (am), **0113**
Arabic (ar), **0118**
Assamese (as), **0119**
Aymara (ay), **0125**
Azerbaijani (az), **0126**
Bashkir (ba), **0201**
Byelorussian (be), **0205**
Bulgarian (bg), **0207**
Bihari (bh), **0208**
Bislama (bi), **0209**
Bengali (bn), **0214**
Tibetan (bo), **0215**
Breton (br), **0218**
Catalan (ca), **0301**
Corsican (co), **0315**
Czech (cs), **0319**
Welsh (cy), **0325**
Danish (da), **0401**
Bhutani (dz), **0426**
Esperanto (eo), **0515**
Estonian (et), **0520**
Basque (eu), **0521**
Persian (fa), **0601**
Finnish (fi), **0609**
Fiji (fj), **0610**
Faroese (fo), **0615**
Frisian (fy), **0625**
Irish (ga), **0701**
Scots-Gaelic (gd), **0704**
Galician (gl), **0712**
Guarani (gn), **0714**
Gujarati (gu), **0721**
Hausa (ha), **0801**
Hindi (hi), **0809**
Croatian (hr), **0818**
Hungarian (hu), **0821**
Armenian (hy), **0825**
Interlingua (ia), **0901**
Interlingue (ie), **0905**
Inupiak (ik), **0911**
Indonesian (in), **0914**
Icelandic (is), **0919**
Hebrew (iw), **0923**
Yiddish (ji), **1009**
Javanese (jw), **1023**
Georgian (ka), **1101**
Kazakh (kk), **1111**
Greenlandic (kl), **1112**
Cambodian (km), **1113**
Kannada (kn), **1114**
Kashmiri (ks), **1119**
Kurdish (ku), **1121**
Kirghiz (ky), **1125**
Latin (la), **1201**
Lingala (ln), **1214**
Laothian (lo), **1215**
Lithuanian (lt), **1220**
Latvian (lv), **1222**
Malagasy (mg), **1307**
Maori (mi), **1309**
Macedonian (mk), **1311**
Malayalam (ml), **1312**
Mongolian (mn), **1314**
Moldavian (mo), **1315**
Marathi (mr), **1318**
Malay (ms), **1319**
Maltese (mt), **1320**
Burmese (my), **1325**
Nauru (na), **1401**
Nepali (ne), **1405**
Norwegian (no), **1415**
Occitan (oc), **1503**
Oromo (om), **1513**
Oriya (or), **1518**
SPanjabi (pa), **1601**
Polish (pl), **1612**
Pashto, Pushto (ps), **1619**
Portuguese (pt), **1620**
Quechua (qu), **1721**
Rhaeto-Romance (rm), **1813**
Kirundi (rn), **1814**
Romanian (ro), **1815**
Kinyarwanda (rw), **1823**
Sanskrit (sa), **1901**
Sindhi (sd), **1904**
Sangho (sg), **1907**
Serbo-Croatian (sh), **1908**
Sinhalese (si), **1909**
lovak (sk), **1911**
Slovenian (sl), **1912**
Samoan (sm), **1913**
Shona (sn), **1914**
Somali (so), **1915**
Albanian (sq), **1917**
Serbian (sr), **1918**
Siswati (ss), **1919**
Sesotho (st), **1920**
Sundanese (su), **1921**
Swedish (sv), **1922**
Swahili (sw), **1923**
Tamil (ta), **2001**
Telugu (te), **2005**
Tajik (tg), **2007**
Thai (th), **2008**
Tigrinya (ti), **2009**
Turkmen (tk), **2011**
Tagalog (tl), **2012**
Setswana (tn), **2014**
Tonga (to), **2015**
Turkish (tr), **2018**
Tsonga (ts), **2019**
Tatar (tt), **2020**
Twi (tw), **2023**
Ukrainian (uk), **2111**
Urdu (ur), **2118**
Uzbek (uz), **2126**
Vietnamese (vi), **2209**
Volapük (vo), **2215**
Wolof (wo), **2315**
Xhosa (xh), **2408**
Yoruba (yo), **2515**
Zulu (zu), **2621**

BD/DVD country/area code list

Country/Area, **Country/Area code**, **Country/Area code letter**

Argentina, **0118, ar**
Australia, **0121, au**
Austria, **0120, at**
Belgium, **0205, be**
Brazil, **0218, br**
Canada, **0301, ca**
Chile, **0312, cl**
China, **0314, cn**
Denmark, **0411, dk**
Finland, **0609, fi**
France, **0618, fr**
Germany, **0405, de**
Hong Kong, **0811, hk**
India, **0914, in**
Indonesia, **0904, id**
Italy, **0920, it**
Japan, **1016, jp**
Korea, Republic of, **1118, kr**
Malaysia, **1325, my**
Mexico, **1324, mx**
Netherlands, **1412, nl**
New Zealand, **1426, nz**
Norway, **1415, no**
Pakistan, **1611, pk**
Philippines, **1608, ph**
Portugal, **1620, pt**
Russian Federation, **1821, ru**
Singapore, **1907, sg**
Spain, **0519, es**
Switzerland, **0308, ch**
Sweden, **1905, se**
Taiwan, **2023, tw**
Thailand, **2008, th**
United Kingdom, **0702, gb**
United States of America, **2119, us**

Troubleshooting

Incorrect operation is often mistaken for trouble and malfunction. If you think there is something wrong with this component, please check the points below. Sometimes the trouble may lie in another component. Investigate the other components and electrical appliances being used. If the trouble cannot be rectified even after checking the points below, ask your nearest Pioneer authorized service center or your dealer to carry out repair work.

Playback

Problem	Remedy
The disc won't play or is automatically ejected after loading.	• Make sure the disc is free from dirt and dust and is not damaged (see *Taking care of your player and discs* on page 44). • Make sure the disc is loaded with the label side face-up and aligned properly in the disc tray guide. • Incompatible region: If the region on a BD-ROM or DVD-Video disc does not match the region on the player, the disc cannot be used (see *BD-ROM regions* and *DVD-Video regions* on page 8). • Condensation inside the player: Allow time for condensation to evaporate. Avoid using the player near an air-conditioning unit. • Make sure the disc is compatible with this player (see *Disc/content format playback compatibility* on page 6).
Picture freezes and the front panel and remote control buttons stop working.	• Press ■ (stop), then start playback again (►(play)). • Press the front panel ⏻ **STANDBY/ON** button to switch the power off, then switch back on and restart playback. If the power fails to switch off, press and hold ⏻ **STANDBY/ON** for 20 seconds until the power switches off. Then switch on again by pressing ⏻ **STANDBY/ON**. • Unplug from the wall socket, then plug back in and switch on again by pressing ⏻ **STANDBY/ON** to switch the player on.
No picture/No colour.	• Incorrect video connections: Check that connections are correct and that plugs are inserted fully. Also check the video cable for damage. • TV/monitor or AV amplifier settings are incorrect: Check the instruction manual of the connected equipment. • Depending on your display, some of the settings may result in the picture disappearing. In this case, press **OUTPUT RESOLUTION** repeatedly until the picture re-appears (see *Changing the output video resolution* on page 12). • Some BD-ROM discs output video only over HDMI.
The video output is set to 720p/1080i/1080p, but the actual output is 576i/480i or 576p/480p.	• For copy-protection purposes, DVD-Video and some BD-ROM discs output 576i/480i or 576p/480p over the component output.
Screen is stretched or aspect does not change.	• The *TV Aspect Ratio* or *4:3 Video Out* setting in the Initial Settings menu is incorrect. See *TV Aspect Ratio* and *4:3 Video Out* on page 39 for how to set these correctly for your TV/monitor. • When *Output Video Resolution* is set to **720p**, **1080i** or **1080p**, video is output in 16:9 Widescreen format even if *TV Aspect Ratio* is set to **4:3 (Standard)**.
Picture disturbance during playback or dark image.	• This player is compatible with Macrovision System copy guard. Some discs include a copy prevention signal, and when this type of disc is played back, stripes etc., may appear on some sections of the picture depending on the TV. This is not a malfunction. • Due to the player's copy protection circuits, connection of this device through a VCR or an AV selector may cause picture problems. This is not a malfunction.
No audio, or audio is distorted.	• No audio is output during slow motion playback or when scanning contents. • Check your amplifier/receiver's settings (volume, input function, speaker settings, etc.). • Check that the disc is free from dust and dirt, and that it is not damaged (*Taking care of your player and discs* on page 44). • Check that all interconnects are firmly inserted. • Check that the plugs and terminals are free of dirt, oxide, etc. and clean if necessary. Also check the cable for damage. • Make sure the player's output is not connected to the amplifier's phono (turntable) inputs. • Check the *Audio Output Mode* on page 41. If this is set to *5.1 Channel*, output from the **AUDIO OUT (2ch)** jacks will be incorrect. • Check the *Speaker Setup* on page 43. • For copy-protection purposes, some BD-ROM discs only output audio over optical/coaxial and HDMI. • When Audio CDs containing text files or such data are played back, sound is muted.
The analog audio is OK, but there appears to be no optical/coaxial digital audio signal.	• Check that the *Dolby Digital Out* and *DTS Out* settings (see *Audio Out* on page 40) are suitable for your amplifier/receiver — check the instruction manual that came with your amplifier/receiver (also check that the output settings on your amplifier/receiver are correct).

Problem	Remedy
Cannot play multi-channel audio.	• Check the audio options available from the disc menu. • Multi-channel 192 kHz audio is output in 2 channels. • Check that the *Dolby Digital Out* and *DTS Out* settings (see *Audio Out* on page 40) are suitable for your amplifier/receiver — check the instruction manual that came with your amplifier/receiver. • If you connected this player to your amplifier/receiver using the 5.1 channel analog outputs, make sure the *Audio Output Mode* on page 41 and *Speaker Setup* on page 43 are set correctly. • If you connected this player to your amplifier/receiver using HDMI, or the optical/coaxial digital outputs, make sure that the output settings on your amplifier/receiver are correct (refer to the instruction manual that came with your amplifier/receiver). • To use the 7.1ch setting for *Dolby Digital Out*, set **Dolby Digital → PCM**.
Noise is output when DTS audio is played.	• If this unit is connected to a non-DTS compatible amplifier or decoder using a digital audio cable, set *DTS Out* to **DTS→PCM**. If you do not do this, noise will be output when you play a DTS disc.
Cannot output 96 kHz or 192 kHz digital audio from optical/coaxial digital output.	• The player does not output digital audio from the optical/coaxial jacks at this sampling rate. The digital output is automatically downsampled.
Disc containing PC files won't play.	• Make sure the disc is compatible with this player (see *Disc/content format playback compatibility* on page 6). • This player is compatible with multi-border discs, but only plays the first border. • Check that the file complies to one of the supported formats, bit rates or profiles (see *File compatibility* on page 7). Also check that the file is not damaged. • If the message **Cannot play this format** is displayed when you try to play PC files, check the file formats. • This player cannot play DRM-protected content on DVD and DRM-protected titles appear in the Disc Navigator with a lock icon (🔒).
No picture or High Definition video output when watching a BD.	• For copy-protection purposes, composite, S-video and component video output may not possible. See *Connecting for HDMI output* on page 11 to connect using HDMI.
Image is blurred when you begin playback of a disc.	• Certain televisions cause blur effects when playback of a disc begins. This is not a malfunction.
Colours are not displayed properly on the TV.	• When you have used the included video cables to connect this unit to a TV that does not support either NTSC or PAL, some colours may not display correctly. For more information please refer to the operating instructions of your TV, and confirm the TV system settings of this unit.
Tracks/files are repeated during random play.	• Because tracks/files are selected entirely at random, same tracks/files may be played in quick succession. For example, 'Track 1' may be followed by 'Track 5,' only to have 'Track 1' play again next. This is not a malfunction.
SlideShows do not play.	• If you have selected a single file and select **Slideshow** from the *Photo Options* menu, then only that single file is played back. To play a Slideshow you must select **All Photos** from the *Browse* menu.
Images no longer displayed when you change the *24p Direct Out* setting to **On**.	• Depending on your display, some of the settings may result in the picture disappearing. In this case, press **OUTPUT RESOLUTION** repeatedly until the picture re-appears (see *Changing the output video resolution* on page 12).

HDMI troubleshooting

Problem	Remedy
No HDMI video output. (A connected HDMI component doesn't work with this player.)	• This unit has been designed to be compliant with HDMI (High-Definition Multimedia Interface). Depending on the component you have connected, unreliable signal transfers may result. • If you connect a DVI device to the HDMI output of this player, ensure that it is compliant with High-bandwidth Digital Content Protection (HDCP). • If the front panel HDMI indicator is unlit then: – Make sure that you've selected this player as the HDMI input in the settings for the component you're using. You may need to refer to the instruction manual of the component to do this. – Check that the HDMI cable is connected properly and that the cable isn't damaged. • If the front panel HDMI indicator is lit: – Depending on your display, some of the settings may result in the picture disappearing. In this case, press **OUTPUT RESOLUTION** repeatedly until the picture re-appears (see *Changing the output video resolution* on page 12). • Depending on the HDMI cable being used, 1080p output may not appear correctly.
Colours are too rich or too weak, or black is too deep or appears to 'float'.	• Use a different *HDMI Color Space* setting (see *HDMI Color Space* on page 39).

Problem	Remedy
No HDMI audio output.	• If you have connected to an HDCP-compatible DVI component, there won't be any audio output from the HDMI terminal. Connect using the optical/coaxial digital outputs (or the analog outputs). • This player does not output multi-channel 192 kHz audio. Press **AUDIO** during playback to switch between the available audio streams.
HDMI Control does not function.	• Verify that the HDMI cable is firmly connected. • Make sure that this unit's *HDMI Control* is set to **On** (see *HDMI Control* on page 41). • Make sure that the HDMI Control for the connected components is set to On. For more information, refer to the operating manual for the connected component. • This function may not work properly if you have multiple components connected to a single plasma television, AV system (amplifier or AV receiver etc.), or HD AV Converter. For more information refer to the operating manual of your plasma television, AV system, or HD AV Converter. • You can enable HDMI Control by turning the *HDMI Control* setting to **On** for all components connected via HDMI cable. Check the video output from this unit once you have completed making connections and settings for all components. You will need to check the video output each time you change connected components or remove the HDMI cable. • Check whether the connected component supports HDMI Control or not. For more information refer to the operating manual of your plasma television, AV system (amplifier or AV receiver etc.), or HD AV Converter. • Certain functions are not supported on some plasma televisions. • This player does not support HDMI Control-compatible components other than those made by Pioneer. • This unit will not function properly with components that do not support HDMI Control, or when connected with components other than those made by Pioneer.

Network troubleshooting

Problem	Remedy
Home Media Gallery is not available.	• LAN indicator is unlit: – Check the physical connections (hub, 100BASE-TX/10BASE-T or crossed cable and other cable quality when cabled directly to a PC). – If the player is connected to a network via a hub, make sure that the Ethernet (CAT-5 LAN) cable you're using is a 'standard' or 'straight through' type. – If the player is connected directly to a PC, make sure that the Ethernet (CAT-5 LAN) cable you're using is a 'crossed' or 'crossover' type. • LAN indicator is lit: – If this player's IP address is set automatically, make sure that the media server's address is also set automatically. If the IP address of the media server has been set manually, set the IP address of the player manually too (see *Network* settings page 41). – Check the logical connections (IP address setup, DHCP, etc.). Confirm that the IP address is correct if acquired using DHCP or Auto-IP in the Network Config. screen that follows the Initial Setup menu (see *Network* settings page 41). – Confirm that the media server is on and not in standby or sleep mode. – Check the network and other settings on the media server. – Check that this player and the media server are on the same Local Area Network (LAN). – Check if the media server (Windows Media Connect or DLNA-compliant) is running. Restart if necessary. – Check if the media server is setup correctly for file sharing, if the target folder has been deleted or if one or more folders has become corrupted on the server. – Check if the PC is operating properly. Reboot the PC after confirming its specifications and setup.
A connected media server does not show up in the source list in the Home Media Gallery.	• Confirm that the media server is on and not in standby or sleep mode. • Check the network and other settings on the media server. • Check that this player and the media server are on the same Local Area Network (LAN). • Check if the media server (Windows Media Connect or DLNA-compliant) is running. Restart if necessary. • Check if the media server is setup correctly for file sharing, if the target folder has been deleted or if one or more folders has become corrupted on the server. • Check if the PC is operating properly. Reboot the PC after confirming its specifications and setup. • Check that there are playable files on the media server. • After adding a new media server, exit the Home Media Gallery then, after a few moments, re-enter it.
A media server shows up in the source list but is not available (a lock icon (🔒) appears).	• Check the media server setup. If a client is registered (authorized) manually, the setup procedure may have to be run again. • Check that there are playable files on the media server. • After adding a new media server, exit the Home Media Gallery then, after a few moments, re-enter it.

Problem	Remedy
Content different from last time appears on the network (missing items, etc.).	• If the player cannot connect to the same server as last time (because it is switched off, for example), the player will connect to another server on the network. To see content on a particular server, make sure it is running and then select it as the source in the Home Media Gallery (see *Movie sources* on page 32).
Cannot play or display.	• Check the physical connections (hub, 100BASE-TX/10BASE-T, or crossed cable and other cable quality when cabled directly to a PC). • Check if the file complies to the supported format, bit rate or profile (see page 7). Also check if the file is damaged. • If the message **Cannot play this format** is displayed when you try to play PC files, check the file formats. • It takes time to capture and display a large-sized image; during this time you may have to wait to operate the player. • This player cannot play DRM-protected content stored on a DLNA server (not Windows Media Connect server). • Some files that comply with one of the supported formats may not play or be displayed. • Check if there are too many files on the server. • Check if the PC is operating properly. Reboot the PC after confirming its specification and setup.
Image or sound is interrupted or distorted (block noise appears).	• Check the physical connections (hub, 100BASE-TX/10BASE-T, or crossed cable and other cable quality when cabled directly to a PC). It is strongly recommended to use 100BASE-TX for playback quality and display speed. • When connected by a wireless LAN, check if the bit rate is sufficient. • Check that the file complies with the supported format, bit rate or profile (see *File compatibility* on page 7). Also check if the file is damaged. • Some files that comply with one of the supported formats may not play or be displayed. • Check if the PC is operating properly. Reboot the PC after confirming its specification and setup.
Genre (movie), Playlist (music), Album (photo) or folder configuration differs from one server to another.	• The configuration may change depending on server type. This is not a malfunction.
An available server is selected but cannot be navigated.	• Check if the server is correctly set up for file sharing, if the target folder has been deleted, or if one or more folders have been corrupted on the server. • Check if there are too many files on the server.

Miscellaneous troubleshooting

Problem	Remedy
It is taking a long time for the unit to start up.	• It can take up to one minute for the system to start up once you press the ⏻ **STANDBY/ON** button. This does not mean that the player is experiencing problems.
The power automatically switches off.	• The Auto Power Off function switches the player into standby if no operation is performed for 30 minutes while the player is stopped or paused. See *Auto Power Off* on page 41.
The remote control doesn't seem to work.	• The **CONTROL IN** jack on the rear panel is connected: Point the remote control at the connected component to control this player. • The remote control is too far from the player, or the angle with the remote sensor is too wide: Use the remote within its operating range (see *Using the remote control* on page 6). • The batteries are exhausted: Put in new ones (see *Putting the batteries in the remote control* on page 6). • If you are using an external IR receiver, you may need to set the **IR RECEIVER** switch (see *Using an external IR receiver with this player* on page 14).
Settings are cancelled.	• When the power is cut due to power failure or by unplugging the power cord during operation, settings will be cancelled. See *Moving the player* on page 45 for proper shutdown instructions.
After inserting a disc, a 'Loading' message is displayed but playback does not begin.	• When you have inserted a disc containing PC files, the time necessary to load the files contained on the disc varies by how many files are present. The process can take anywhere from a few minutes to upwards of ten minutes.
On hybrid discs with BD and DVD layers, the DVD layer cannot be played back.	• Change the *Set hybrid disc playback layer* to **DVD** (see page 41).
On hybrid discs with BD and CD layers, the CD layer cannot be played back.	• Change the *Set hybrid disc playback layer* to **CD** (see page 41).

Problem	Remedy
When the *Set hybrid disc playback layer* is set to **DVD** and you insert a hybrid disc with BD and CD layers, the BD layer is played back.	• When the layer set to playback at S*et hybrid disc playback layer* is not present on an inserted hybrid disc, the BD layer is played back.
The *Set hybrid disc playback layer* setting cannot be changed (it is grayed out).	• You cannot change the *Set hybrid disc playback layer* when a disc is inserted. Eject the disc to make changes.
A '■' appears in the file name.	• A character that cannot be displayed on this unit is included in the file name. Use only alphanumeric characters if you want file names to be displayed correctly on this player.
The power automatically turns on.	• This unit's power may be turned on when you control this unit from a connected plasma television. If you do not want this unit to be turned on in this way, set this unit's *HDMI Control* to **Off** (see *HDMI Control* on page 41).

Glossary

Analog audio
An electrical signal that directly represents sound. Compare this to digital audio which can also be an electrical signal, but is an indirect representation of sound. See also *Digital audio*.

Aspect ratio
The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the screen is almost square); widescreen models are 16:9 (the screen is almost twice as wide as it is high).

BD-J
BD-J is the Java specification for BD-ROM, allowing content providers to put interactive material linked to specific titles on the disc.

Default Gateway
Default Gateway is a node on a computer network that serves as an access point to another network. A default gateway (such as a computer and router) is used to forward all traffic that is not addressed to a station within the local subnet.

DHCP (Dynamic Host Configuration Protocol) Server
A DHCP server is a server that allocates IP addresses to hosts (network devices). In most cases, a broadband router serves as a DHCP server in a home network.

Digital audio
An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also *Sampling frequency* and *Analog audio*.

DRM (Digital Rights Management)
DRM is one of several technologies that controls access to and use of digital data, such as music, movies and other copyrighted contents.

Dynamic range
The difference between the quietest and loudest sounds possible in an audio signal (without distorting or getting lost in noise). Dolby Digital and DTS soundtracks are capable of a very wide dynamic range, delivering dramatic cinema-like effects.

Ethernet
A frame-based computer networking technology for local area networks (LANs). This player supports 100BASE-TX and 10BASE-T.

File extension
A tag added to the end of a filename to indicate the type of file. For example, ".jpg" indicates an JPEG image file.

HDMI
HDMI (High-Definition Multimedia Interface) is a high-speed digital interface which has the capability to support standard or high-definition video plus standard to multi-channel surround-sound audio on a single digital connection.

Interactive audio
Interactive audio is Linear PCM (LPCM) audio activated by a BD-ROM application and mixed with the primary audio. It is typically used to provide dynamic sounds associated with interactive applications, such as button sounds.

Interlaced video
A method of displaying a picture in which odd-numbered lines are updated in one pass, then even-numbered lines updated in the next. See also *Progressive scan video*.

IP (Internet Protocol) address
A unique number that devices use in order to identify and communicate with each other on a network utilizing the Internet Protocol standard, such as '192.168.0.1'. No duplicate numbers are allowed in the network.

LAN cable
A cable that has an 8-pin modular plug on each end and is different from a telephone plug which has 4 pins. A straight cable is used when connecting this player to a home network via a hub. A cross-over cable is used when connecting directly to a PC.

MAC (Media Access Control) address
An address attached to the port of any device. The MAC address cannot be changed.

PCM (Pulse Code Modulation)
A common system of encoding digital audio. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders and AV amplifiers with digital inputs, this unit can convert Dolby Digital, DTS and MPEG audio to PCM. See also *Digital audio*.

Pop-up menu (BD only)
A context-sensitive menu that can be used without interrupting playback of a BD.

Progressive scan video
Also called non-interlaced video, this method of displaying a picture updates all the lines in one pass, resulting in a more stable, flicker-free image than interlaced video (for a given scanning rate). See also *Interlaced video*.

Regions (DVD-Video and BD-ROM)
These associate discs and players with particular areas of the world. This unit will only play discs that have a compatible region code (i.e., the same code as your player). You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Note that the region systems for DVD and BD are not the same.

Sampling frequency
The rate at which sound is measured to be turned into digital audio data. The higher the rate, the better the sound quality, but the more digital information is generated. For example, a sampling frequency of 44.1 kHz means 44 100 samples (measurements) per second. See also *Digital audio*.

Subnet mask
The IP address is divided into the network address part and the host address part. The subnet mask is expressed as '255.255.255.0'. In most cases, the subnet mask is automatically assigned by the DHCP server.

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Specifications

General

System . . . . . Blu-ray Disc PLAYER (BD-ROM, DVD-Video, DVD-R/-RW, CD, network file playback)
Power requirements . . . . . AC 220 V to 240 V, 50 Hz/60 Hz
Power consumption . . . . . 35 W
Power consumption (standby) . . . . . 0.5 W
Weight . . . . . 6.5 kg
Dimensions . . . . . 420 mm (W) x 103 mm (H) x 353 mm (D)
Operating temperature . . . . . +5 °C to +35 °C
Operating humidity . . . . . 5 % to 85 % (no condensation)

HDMI output

HDMI output . . . . . 19 pin

Component Video output (Y, P_B, P_R)

Output level . . . . . Y: 1.0 Vp-p (75 Ω)
P_B, P_R: 0.7 Vp-p (75 Ω)
Jacks . . . . . RCA jacks

S-Video output

Y (luminance) - Output level . . . . . 1 Vp-p (75 Ω)
C (colour) - Output level . . . . . 286 mVp-p (75 Ω)
Jack . . . . . S-Video jack

Video output

Output level . . . . . 1 Vp-p (75 Ω)
Jack . . . . . RCA jack

Audio output (1 stereo pair)

Output level . . . . . During audio output 200 mVrms (1 kHz, –20 dB)
Number of channels 2
Jacks . . . . . RCA jack

Audio output (multi-channel/L, R, C, SW, LS, RS)

Output level . . . . . During audio output 200 mVrms (1 kHz, –20 dB)
Number of channels 6
Jacks . . . . . RCA jack

Audio characteristics

Frequency response . . . . . 4 Hz to 22 kHz
S/N ratio . . . . . 115 dB
Dynamic range . . . . . 108 dB
Total harmonic distortion . . . . . 0.0015 %
Wow and flutter . . . . . Limit of measurement (0.001 % W. PEAK) or lower

Digital output

Optical digital output . . . . . Optical digital jack
Coaxial digital output . . . . . RCA jack

Other terminals

LAN terminal . . . . . Ethernet jack 10BASE-T/100BASE-TX
Control in . . . . . Minijack (3.5 ø)
IR in . . . . . Minijack (3.5 ø)

Accessories

Remote control 1
AA/R6P dry cell batteries 2
Stereo audio cable (red/white plugs) 1
Video cable (yellow plugs) 1
HDMI cable 1
LAN cable 1
Power cable 1
Warranty card 1
Operating instructions

The specifications and design of this product are subject to change without notice.

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